Computing Reviews

PAMPHLET BOX

BIBLIOGRAPHY and SUBJECT INDEX of CURRENT COMPUTING LITERATURE

1970

Edited by
AARON FINERMAN, LEE REVENS, and MARY NEUMEYER

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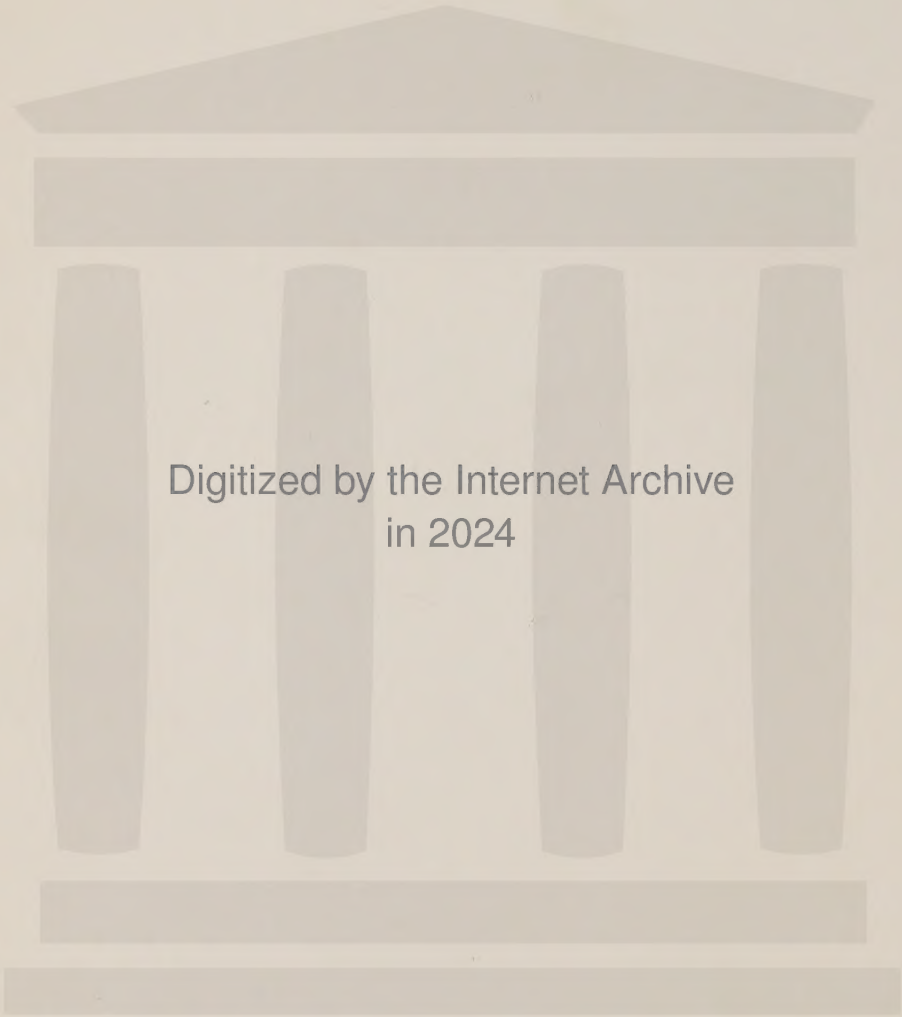
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BIBLIOGRAPHY
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ACKNOWLEDGMENTS

The production of a Permuted and Subject Index of this scope involved the active participation of many individuals and organizations. We single out below some of the principal contributors; however, we express our appreciation to the numerous other participants who made the project possible.

In particular, Marc Feldman of the Jet Propulsion Laboratories developed the programs and coordinated the activities at JPL necessary for producing this Index. The programs were run on the UNIVAC 1108-EXEC 8 computing system. Robert Jirka and Thomas Smith supplied the necessary facilities and time.

We gratefully acknowledge the support of Gordon Smith, Executive Director, and Mrs. Irene Hollister, Executive Secretary, ACM, whose cooperativeness expedited the completion of the project; and the work of ACM Headquarters staff in keypunching the many entries and coping with the diverse problems encountered.

Finally, we wish to express our deep appreciation for all the attentive critics and alert users who generously informed us of the merits and utility of the previous indexes—and articulately prodded us into making the necessary improvements.

INTRODUCTION

THIS VOLUME continues the broader coverage, initiated in the 1966 Index, by going beyond citation of materials reviewed in COMPUTING REVIEWS. While this remains essentially an annotated bibliography through keying the citations to reviews that have appeared in COMPUTING REVIEWS, a step toward comprehensiveness is taken by citing nonreviewed materials representing: (1) works that normally should have been reviewed earlier in *CR's* history but that for diverse reasons failed to appear, and (2) marginal materials that could not be processed with our limited facilities of space, staff, and volunteer reviewers, but that still merit listing in a full-scale bibliography. This category has 0000 as the first part of the key number; such materials will probably never be reviewed in *CR*.

Comprehensiveness of coverage deserves further discussion. It is possible to regard comprehensiveness as automatic coverage of every paper in a selected list of periodicals, even when these are trivial, or of limited pertinence to computing, but it is also possible to regard it as coverage of all pertinent articles from a wide range of materials, including the single article in a particular issue of a periodical that normally does not touch on computing, while deliberately omitting coverage of nonpertinent papers in periodicals that are generally concerned with computing. The emerging policy of *CR* and its index volumes is to blend these definitions, and undertake to be comprehensive by citing every paper in a selected list of periodicals and proceedings, while reviewing only those that are substantive and pertinent; and to review pertinent, substantive materials wherever findable in sources apart from this announced list. With these standards, more adequately applied since the first issue of 1967, *CR* undertakes to provide, in its index volumes, a bibliography of computing literature that is increasingly truly comprehensive. The bibliography of the current Index references approximately 2500 titles.

TO THE USER

Reference Code:

The reference number directs the reader to the issue of COMPUTING REVIEWS that contains the review of that material. This reference number is a key to the year, volume, issue and review number. (Thus 70111 18,231 represents 1970, volume 11, issue 1, and review number 18,231.)

Bibliography and Author Index:

Apparent redundancies may be noted in the Author Index and the Bibliography. As may be recognized, this results from the policy of citing, when possible, all the contributing authors and their individual papers for anthologies or composite volumes that have a general title and editor. Thus, under a main entry review, the Bibliography will show the principal title (e.g., *Advances in Computers*), and all the authors and editors; but under separate reviews of individual papers, the title and author again. Similarly, the Author Index may show the author twice: once for the principal title, and once for his individual contribution. As an additional service to the reader, if the original paper (not the review) was in a language other than English, the citation indicated the language in parenthesis (e.g., Russian) following the title.

In using the Author Index, multiple reviews of seemingly identical material will occasionally be referenced. This happens most frequently when the material came as a full (translated) paper from one source, and was independently picked up at another time from a foreign language abstract or review journal, and cited as a title only. These diverse sources, it may be noted, offer variant translations of titles—as those working in mechanical translation would expect—thus making difficult the editorial problems of eliminating such multiple reviews.

Permuted Index and Classification Index:

In general, a Permuted Index requires minimal editing, and lets the user develop his own retrieval approaches, cautioning him only as to words that have been blocked, and some inflexibilities of machine indexing.

To maximize the subject index (Classification Section) utility of this volume it is suggested that the user identify the *CR* category headings (given in full pp. ix, x) that relate to his topic, and systematically search the listing under each Classification at the appropriate subsection levels. The occasional parallelisms and apparent redundancies of the *CR* classification system are a tribute to the encompassing range of information processing and its applications. Distinctions and differentations turn on the fact (implied when not explicit) that computing and information processing are the orientation of the categories. Thus, 1.0 *General Topics and Education* is about computing and education in computing. In 3.32 the "education" stands for the application of computing to education of any sort, (not just of education about computing), as a tool of research in education, as a facilitator of teaching methods (e.g., computer-aided teaching machines, classroom consoles, etc., would be reviewed here); in contrast, at 3.51 the managerial aspects of education, as aided by computer, from student registration and class-sectioning, to the largest problems of school administration are reviewed. Similarly, 5.5 is not statistics, but about computing applied to statistics, as in Monte Carlo methods, and random number generation, and about statistical work that contributes to computing theory and practice.

It may be noted that the Permuted Index and the Classification Section supplement one another in providing the user with, first, a narrow topic guide, and secondly, a safety net. The contrasting virtues and utilities of the two sections may be illustrated by (actual) retrieval questions. If the user wants, for example, materials on classroom sectioning and scheduling by computer, he can, in the Permuted Section look under *scheduling, sectioning,* and even *class assignment*. But, if the author of a paper has used none of these terms in the title, the paper can still be retrieved by looking in 3.32 *Applications in Social*

Sciences—Education; Welfare, and in 3.51 *Applications in Management Data Processing—Education.*

The Permuted Index Section is time-saving if the significant word is definite and appears in the title, since the user can then turn immediately to that word in its alphabetical order. The Classification Section provides a longer listing, but guarantees that reading through it will turn up every relevant title, no matter how disguised in its wording. Further, the fact that the reviews were cross-referenced by the reviewer and *CR* staff assures that materials having a bearing on the user's topic will be retrieved, even if primarily not a title or a classification he would ordinarily consult. Thus, a paper on computing centers at universities (classified under 2.40 *Administration of Computing Centers, General*) that discussed the class-scheduling system produced as a service to the university would appear under 3.51 because the reviewer had noted its pertinence to this category.

Titles vary in the fashion in which they referred to specific computers and model numbers. Again, to assure consistent permuting, the manufacturer's name (in parenthesis) has been added to the title when the model number was listed without it. The user should therefore look under the manufacturer when seeking references to a specific machine.

Blocked Words:

Conventionally, a permuted index is modified by a varyin number of blocked words—words not used as an entry. Thes are usually non-significant particles (a, and, for, which, etc. To these are frequently added the words in the particular sub ject matter that would swamp the index by turning up too ofte (In this volume, for example, *computing, automatic, progran ming*, etc.) A rather more critical standard was necessary for th present index. The user should note that numerals, preposition conjunctions, pronouns, auxiliary verbs in all their forms, an the like have been blocked. In addition, vague words (recen new) and many words that occurred only once or twice, an are not essentially self-evident keywords in computing, hav also been blocked (arise, lag, quarterly, today, etc.). Plac names have generally (but not always) been blocked.

Hyphens were used when necessary to prevent blocking o phrases consisting of words that are each blocked individuall Thus, although each of the three words in electronic-data-proc essing is blocked, the phrase is made to permute as a unit b adding hyphens to the original title.

The user is reminded that if any entry is not found in th Permuted Section where he expects it, consulting the Classifica tion Section may guide him to the location of material he seeking.

CATEGORIES OF THE COMPUTING SCIENCES

CLASSIFICATION SYSTEM FOR COMPUTING REVIEWS

1. GENERAL TOPICS AND EDUCATION
   - 1.0 General
   - 1.1 Texts; Handbooks
   - 1.2 History; Biographies
   - 1.3 Introductory and Survey Articles
   - 1.4 Glossaries
   - 1.5 Education
     - 1.50 General
     - 1.51 High School Courses and Programs
     - 1.52 University Courses and Programs
     - 1.53 Certification; Degrees; Diplomas
     - 1.59 Miscellaneous
   - 1.9 Miscellaneous

2. COMPUTING MILIEU
   - 2.0 General
   - 2.1 Philosophical and Social Implications
     - 2.10 General
     - 2.11 Economic and Sociological Effects
     - 2.12 The Public and Computers
     - 2.19 Miscellaneous
   - 2.2 Professional Aspects
   - 2.3 Legislation; Regulations
   - 2.4 Administration of Computing Centers
     - 2.40 General
     - 2.41 Administrative Policies
     - 2.42 Personnel Training
     - 2.43 Operating Procedures
     - 2.44 Equipment Evaluation
     - 2.45 Surveys of Computing Centers
     - 2.49 Miscellaneous
   - 2.9 Miscellaneous

3. APPLICATIONS
   - 3.1 Natural Sciences
     - 3.10 General
     - 3.11 Astronomy; Space
     - 3.12 Biology
     - 3.13 Chemistry
     - 3.14 Earth Sciences
     - 3.15 Mathematics; Number Theory
     - 3.16 Meteorology
     - 3.17 Physics; Nuclear Sciences
     - 3.19 Miscellaneous
   - 3.2 Engineering
     - 3.20 General
     - 3.21 Aeronautical; Space
     - 3.22 Chemical
     - 3.23 Civil
     - 3.24 Electrical; Electronic
     - 3.25 Engineering Science
     - 3.26 Mechanical
     - 3.29 Miscellaneous
   - 3.3 Social and Behavioral Sciences
     - 3.30 General
     - 3.31 Economics
     - 3.32 Education; Welfare
     - 3.33 Law
     - 3.34 Medicine; Health
     - 3.35 Political Science
     - 3.36 Psychology; Anthropology
     - 3.37 Sociology
     - 3.39 Miscellaneous
   - 3.4 Humanities
     - 3.40 General
     - 3.41 Art
     - 3.42 Language Translation and Linguistics
     - 3.43 Literature
     - 3.44 Music
     - 3.49 Miscellaneous
   - 3.5 Management Data Processing
     - 3.50 General
     - 3.51 Education; Research
     - 3.52 Financial
     - 3.53 Government
     - 3.54 Manufacturing; Distribution
     - 3.55 Marketing; Merchandising
     - 3.56 Military
     - 3.57 Transportation; Communication
     - 3.59 Miscellaneous
   - 3.6 Artificial Intelligence
     - 3.60 General
     - 3.61 Induction and Hypothesis-formation
     - 3.62 Learning and Adaptive Systems
     - 3.63 Pattern Recognition
     - 3.64 Problem-solving
     - 3.65 Simulation of Natural Systems
     - 3.66 Theory of Heuristic Methods
     - 3.69 Miscellaneous
   - 3.7 Information Retrieval
     - 3.70 General
     - 3.71 Content Analysis
     - 3.72 Evaluation of Systems
     - 3.73 File Maintenance
     - 3.74 Searching
     - 3.75 Vocabulary
     - 3.79 Miscellaneous
   - 3.8 Real Time Systems
     - 3.80 General
     - 3.81 Communications
     - 3.82 Industrial Process Control
     - 3.83 Telemetry; Missiles; Space
     - 3.89 Miscellaneous
   - 3.9 Miscellaneous

4. PROGRAMMING
   - 4.0 General
   - 4.1 Processors
     - 4.10 General
     - 4.11 Assemblers
     - 4.12 Compilers and Generators
     - 4.13 Interpreters

4.19 Miscellaneous
4.2 Programming Languages
4.20 General
4.21 Machine Oriented Languages
4.22 Procedure and Problem Oriented Languages
4.29 Miscellaneous
4.3 Supervisory Systems
4.30 General
4.31 Basic Monitors
4.32 Multiprogramming; Multiprocessing
4.39 Miscellaneous
4.4 Utility Programs
4.40 General
4.41 Input/Output
4.42 Debugging
4.43 Program Maintenance
4.49 Miscellaneous
4.9 Miscellaneous

5. MATHEMATICS OF COMPUTATION
5.0 General
5.1 Numerical Analysis
5.10 General
5.11 Error Analysis; Computer Arithmetic
5.12 Function Evaluation
5.13 Interpolation; Functional Approximation
5.14 Linear Algebra
5.15 Nonlinear and Functional Equations
5.16 Numerical Integration and Differentiation
5.17 Ordinary and Partial Differential Equations
5.18 Integral Equations
5.19 Miscellaneous
5.2 Metatheory
5.20 General
5.21 Formal Logic
5.22 Automata; Turing Machines
5.23 Mechanical and Algorithmic Languages
5.24 Theory of Programming
5.29 Miscellaneous
5.3 Combinatorial and Discrete Mathematics
5.30 General
5.31 Sorting
5.32 Graph Theory
5.39 Miscellaneous
5.4 Mathematical Programming
5.40 General
5.41 Linear and Nonlinear Programming
5.42 Dynamic Programming
5.49 Miscellaneous
5.5 Mathematical Statistics; Probability
5.6 Information Theory
5.9 Miscellaneous

6. DESIGN AND CONSTRUCTION
6.0 General
6.1 Logical Design; Switching Theory
6.2 Computer Systems
6.20 General
6.21 General Purpose Computers
6.22 Special Purpose Computers
6.29 Miscellaneous
6.3 Components and Circuits
6.30 General
6.31 Circuit Elements
6.32 Arithmetic Units
6.33 Control Units
6.34 Storage Units
6.35 Input/Output Equipment
6.36 Auxiliary Equipment
6.39 Miscellaneous
6.9 Miscellaneous

7. ANALOG COMPUTERS
7.0 General
7.1 Applications
7.2 Design; Construction
7.3 Hybrid Systems
7.4 Programming; Techniques
7.9 Miscellaneous

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11 4 18755 ON THE ROLE OF THE ACM JOURNAL
11 4 18833 PROC. OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCES
11 5 18973 CONDENSED COMPUTER ENCYCLOPEDIA
11 5 18974 SYSTEMS ANALYSIS FOR EFFECTIVE PLANNING: PRINCIPLES AND CASES
11 6 19163 PURPOSIVE SYSTEMS
11 7 19325 COMPUTERS AND ARTIFICIAL INTELLIGENCE.
11 8 19504 PROC. AFIPS 1970 SPRING JOINT COMPUTER CONF.,
11 8 19619 SECOND SYMPOSIUM ON OPERATING SYSTEMS PRINCIPLES,

1.10 GENERAL TOPICS AND EDUCATION
TEXTS, HANDBOOKS

0 0 4 MODERN DATA PROCESSING
0 0 21 LOGIC AND METHODS OF NUMERICAL CALCULATORS: MASTERY OF
0 0 110 INTRODUCTION TO COMPUTERS AND PROGRAMMING.
0 0 142 INTRODUCTION TO COMPUTERS,
0 0 146 COMPUTER PROGRAMMING FUNDAMENTALS.
0 0 167 DIGITAL COMPUTERS: A PRACTICAL APPROACH (2D ED)
0 0 202 INTRODUCTION TO COMPUTER SCIENCE AND DATA PROCESSING. (2D ED.)
0 0 232 COMPUTER USAGE: 360 FORTRAN PROGRAMMING.
0 0 233 COMPUTER USAGE-APPLICATIONS.
0 0 243 PROBLEM SOLVING BY DIGITAL COMPUTERS WITH PL/I PROGRAMMING.
0 0 245 THE REAL COMPUTER: ITS INFLUENCE, USES, AND EFFECTS.
INFORMATION, (LOGIQUE ET ORGANES DES CALCULATRICES NUMERIGUES: MAITRISE D'INFORMATIQUE)
11 1 18157 COMPUTER-ORIENTED BUSINESS SYSTEMS
11 1 18158 AUTOMATIC DATA PROCESSING: SYSTEM-360 EDITION
11 1 18159 INTRODUCTION TO FORTRAN II AND FORTRAN IV PROGRAMMING
11 1 18160 COMPUTER DATA PROCESSING
11 1 18161 INTRODUCTION TO FEEDBACK SYSTEMS
11 1 18191 MATRIX COMPUTER ANALYSIS OF STRUCTURES
11 1 18216 AN INTRODUCTION TO COBOL COMPUTER PROGRAMMING FOR ACCOUNTING AND BUSINESS ANALYSIS
11 1 18287 ELEMENTARY NUMERICAL ANALYSIS
11 2 18361 A SURVEY OF DIGITAL COMPUTING
11 2 18362 COMPUTERS FOR ENGINEERS
11 2 18363 BASIC PROGRAMMING CONCEPTS AND THE IBM 1620 COMPUTER
11 2 18364 FUNDAMENTALS OF DIGITAL COMPUTERS
11 2 18374 COMPUTER METHODS IN MATHEMATICS
11 2 18433 MANAGEMENT THROUGH SYSTEMS AND PROCEDURES
11 2 18476 PROGRAMMER'S GUIDE TO THE IBM SYSTEM-360
11 2 18479 PROGRAMMING: AN INTRODUCTION TO COMPUTER LANGUAGES AND TECHNIQUES
11 2 18480 A CONVERSATIONAL GRAPHIC DATA PROCESSING SYSTEM: THE IBM 1130-2250
11 2 18485 FORTRAN IID ON THE IBM 1620: INTRODUCTION TO DIGITAL COMPUTER PROGRAMMING
11 2 18486 A COURSE ON PROGRAMMING IN FORTRAN IV
11 2 18487 A FIRST COURSE IN ALGOL 60
11 2 18488 INTRODUCTION TO THE LANGUAGE ALGOL
11 2 18489 ELEMENTS OF BASIC FORTRAN IV PROGRAMMING
11 2 18509 MATRIX-COMPUTER METHODS IN ENGINEERING
11 2 18510 NUMERICAL ANALYSIS - THE MATHEMATICS OF COMPUTING. VOL. 1.
11 2 18548 ELEMENTS OF LINEAR PROGRAMMING
11 3 18577 COMPUTERS
11 3 18578 COMPUTER SCIENCE: A FIRST COURSE
11 3 18622 QUANTITATIVE METHODS FOR BUSINESS AND ECONOMIC ANALYSIS
11 3 18681 360 PROGRAMMING IN ASSEMBLY LANGUAGE
11 3 18691 HANDBOOK OF NUMERICAL METHODS AND APPLICATIONS
11 3 18752 ANALOG AND HYBRID MACHINES
11 3 18753 INTRODUCTION TO ANALOG COMPUTATION
11 4 18756 ASSEMBLER LANGUAGE PROGRAMMING: THE I.B.M. SYSTEM-360
11 4 18804 PERTSIM: TEXT AND SIMULATION
11 4 18831 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
11 4 18832 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
11 4 18892 INTRODUCTION TO NUMERICAL METHODS
11 4 18911 METHODS FOR THE NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS
11 4 18959 DIGITAL COMPUTER DESIGN
11 5 18973 CONDENSED COMPUTER ENCYCLOPEDIA
11 5 18975 COMPUTERS AT WORK
11 5 18989 PROC. IBM SCIENTIFIC COMPUTING SYMPOSIUM ON COMPUTERS IN CHEMISTRY
11 6 19164 FORTRAN PROGRAMMING
11 6 19165 INTRODUCTION TO COMPUTER PROGRAMMING
11 6 19166 COMPUTER SCIENCE: A FIRST COURSE
11 6 19167 COMPUTER DATA PROCESSING AND PROGRAMMING
11 6 19168 COMPUTERS
11 6 19169 MANAGEMENT INFORMATION SYSTEMS HANDBOOK
11 6 19170 FUNDAMENTALS OF FLOWCHARTING
11 6 19171 FUNDAMENTALS OF FLOWCHARTING
11 6 19211 UNDERSTANDING COMPUTERS: A GUIDE FOR MANAGEMENT
11 6 19213 THE EXECUTIVE STRATEGIST
11 6 19243 PROC. OF THE 1968 CLINIC ON LIBRARY APPLICATIONS OF DATA PROCESSING
11 6 19292 OPERATIONAL RESEARCH TECHNIQUES
11 7 19326 CALCULUS
11 7 19327 INTRODUCTION TO COMPUTER ENGINEERING.
11 7 19336 INSTALLING AND MANAGING A COMPUTER.
11 7 19341 THE COMPUTATION OF CHEMICAL EQUILIBRIA.
11 7 19367 QUEUING THEORY.
11 7 19392 A GUIDE TO SOFTWARE DOCUMENTATION.
11 7 19423 PROGRAMMING-ALGOL.
11 7 19441 ELEMENTARY LINEAR ALGEBRA.
11 7 19455 COMPUTATIONAL METHODS IN PARTIAL DIFFERENTIAL EQUATIONS.
11 7 19472 GRAPH THEORY.
11 8 19506 DIGITAL COMPUTER BASICS.
11 8 19510 AN INTRODUCTION TO COMPUTER SCIENCE AND ALGORITHMIC PROCESSES.
11 8 19563 COMPUTER PROGRAMS FOR COMPUTATIONAL ASSISTANCE.
11 8 19630 LECTURES IN APPLICATIONS-ORIENTED MATHEMATICS.
11 9 19690 ELECTRONIC CALCULATING MACHINES.
11 9 19775 RANDOM PROCESSES, COMMUNICATIONS, AND RADAR.
11 9 19782 INTRODUCTION TO PROGRAMMING. II. PROGRAMMING IN AN ASSEMBLY LANGUAGE.
11 9 19807 DIGITAL COMPUTER METHODS IN ENGINEERING.
11 9 19836 INTRODUCTION TO STATISTICAL DATA PROCESSING.
11 10 19862 INFORMATION PROCESSING.
11 10 19865 PRINCIPLES OF COMPUTER PROGRAMMING.
11 10 19866 BASIC COBOL PROGRAMMING SELF-INSTRUCTIONAL MANUAL AND TEXT.
11 10 19867 COMMUNICATING WITH A COMPUTER.
11 10 19950 NUMERICAL ANALYSIS - THE MATHEMATICS OF COMPUTING.
11 11 20043 INTRODUCTION TO COMPUTER SCIFNCE.
11 11 20050 SWITCHING AND FINITE AUTOMATA THEORY.
11 11 20152 NUMERICAL ALGORITHMS: ORIGINS AND APPLICATIONS.
11 11 20188 FORMAL LANGUAGES AND THEIR RELATION TO AUTOMATA.
11 12 20222 PL/I PROGRAMMING: A MANUAL OF STYLE.
11 12 20246 AN ADMINISTRATOR'S HANDBOOK ON THE APPLICATION OF OPERATIONS RESEARCH TO THE MANAGEMENT OF MENTAL HEALTH SYSTEMS.

1.20 GENERAL TOPICS AND EDUCATION
HISTORY, BIOGRAPHIES

0 0 140 PIONEER OF INFORMATION SCIENCES--SELECTED WORKS.
0 0 172 IRASCIBLE GENIUS: THE LIFE OF CHARLES BABBAGE.
11 1 18162 COMPUTER DEVELOPMENTS IN THE WEST INDIES
11 1 18163 COMPUTERS: THEIR HISTORY AND HOW THEY WORK
11 1 18170 THINK: A BIOGRAPHY OF THE WATSONS AND IBM
11 2 18365 THE COMPUTER PROPHETS
11 2 18366 ELECTRONIC COMPUTERS: A HISTORICAL SURVEY
11 3 18579 THINK. A BIOGRAPHY OF THE WATSONS AND IBM
11 5 18976 A POLITICO-SOCIAL HISTORY OF ALGOL
11 8 19512 PASSAGES FROM THE LIFE OF A PHILOSOPHER.
11 11 20046 HILBERT.

1.30 GENERAL TOPICS AND EDUCATION
INTRODUCTORY AND SURVEY ARTICLES

0 0 14 WHAT IS A COMPUTER? (QU'EST-CE QU'UN ORDINATEUR?)
0 0 49 THE ELECTRONIC BRAIN: HOW IT WORKS.
0 0 51 THE SEARCH FOR THE ROBOTS.
0 0 89 FRY'S COMPUTER APPRECIATION.
0 0 90 ELECTRONIC DATA PROCESSING. (ELEKTRONISCHE
0 0 127 MATHEMATICAL SCIENCES AND SOCIAL SCIENCES.
0 0 142 INTRODUCTION TO COMPUTERS,
0 0 159 THE STORY OF COMPUTERS.
0 0 165 INFORMATION, MECHANISM, AND MEANING.
0 0 167 DIGITAL COMPUTERS: A PRACTICAL APPROACH (2D ED)
0 0 197 DICTIONARY OF DATA PROCESSING TERMS. DATENVERARBEITUNGSANLAGEN.)
11 1 18162 COMPUTER DEVELOPMENTS IN THE WEST INDIES
11 1 18163 COMPUTERS: THEIR HISTORY AND HOW THEY WORK
11 1 18164 WHAT THE MANAGER WOULD KNOW ABOUT THE COMPUTER
11 1 18165 INFORMATION PROCESSING IN ISRAEL
11 1 18166 THE GROWTH OF INTEREST IN MICROPROGRAMMING: A LITERATURE STUDY
11 1 18167 DESKTOP COMPUTERS AND MINICOMPUTERS
11 1 18168 COMPUTATIONAL LINGUISTICS IN A PHD COMPUTER SCIENCE PROGRAM
11 2 18367 THE SYSTEMS APPROACH
11 2 18368 SEER: A DELPHIC APPROACH APPLIED TO INFORMATION PROCESSING
11 2 18369 ASSEMBLER-LANGUAGE MACROPROGRAMMING: A TUTORIAL ORIENTED TOWARD THE IBM 360
11 2 18370 APPLICATION OF SIMULATION TO THE GENERALIZED OPTIMIZATION OF PROCESS CONTROL SYSTEMS
11 2 18373 EDUCATIONAL COMPUTER UTILITIES
11 2 18500 COMMERCIAL TIME-SHARING SERVICES AND UTILITIES
11 2 18519 BALANCING A MATRIX FOR CALCULATION OF EIGENVALUES AND EIGENVECTORS
11 3 18576 BRIGHT FUTURE CAREERS WITH COMPUTERS
11 3 18580 COMMON FILE ORGANIZATION TECHNIQUES COMPARED
11 3 18615 GET THE COMPUTER SYSTEM YOU WANT
11 3 18653 GENERALIZED SYSTEMS FOR STORING STRUCTURED VARIABLE LENGTH DATA AND RETRIEVING INFORMATION
11 3 18683 FORMULA MANIPULATION - THE USER'S POINT OF VIEW
11 4 18757 PROSPECTS OF COMPUTER SCIENCE
11 4 18802 THE COMPLEAT COMPUTER CENTER
11 4 18814 INFORMATION SYSTEMS IN PERSPECTIVE
11 4 18839 INFORMATION SCIENCE UNLIMITED? . . . A POSITION PAPER
11 4 18883 APL: A PERSPICUOUS LANGUAGE
11 5 18975 COMPUTERS AT WORK
11 5 18977 3RD GENERATION SOFTWARE
11 5 19019 COMPUTER ASSISTED INSTRUCTION EXPERIENCES IN IBM
11 5 19040 SURVEY OF MANAGEMENT INFORMATION SYSTEMS AND THEIR LANGUAGES
11 6 19172 COMPUTERS 701: A CENSUS OF COMPUTER INSTALLATIONS AND DIRECTORY OF COMPUTER SERVICE COMPANIES IN THE SAN FRANCISCO BAY AREA
11 6 19173 HIERARCHICAL STRUCTURES
11 6 19174 HIERARCHICAL ASPECTS OF COMPUTER LANGUAGE
11 6 19175 STRUCTURE IN ERROR-CORRECTING CODES
11 6 19176 COMPUTERS IN JAPAN - 1969
11 6 19177 A USER'S VIEW OF THE UNITED KINGDOM TIME SHARING INDUSTRY
11 6 19182 CAREERS IN DATA PROCESSING
11 8 19505 WHAT COMPUTERS CAN DO.
11 8 19556 THE USE OF COMPUTERS FOR PROFIT: A BUSINESSMAN'S GUIDE.
11 9 19709 HOW CAN MACHINES DO WHAT THEIR MAKERS CAN'T?
11 9 19745 AN OVERVIEW OF THE INFORMATION PROCESSING AND COMPUTER COMMUNITY.
11 9 19776 CREATIVE INFORMATION SYSTEMS-SOME NEW DEVELOPMENTS.
11 9 19835 LINEAR PROGRAMMING.
11 11 20042 INTRODUCTION TO PROGRAMMING.
11 12 20223 COMPUTER: THE MIND STRETCHER.
11 12 20278 A TECHNO-FUNDAMENTAL PORTFOLIO MANAGEMENT SIMULATION WITH

1.30 GENERAL TOPICS AND EDUCATION - INTRODUCTORY+SURVEY ARTICLES

COMPUTER APPLICATIONS.

1.40 GENERAL TOPICS AND EDUCATION
GLOSSARIES

70 0 0 93 ENGLISH-FRENCH DICTIONARY OF INFORMATION PROCESSING.
70 0 0 96 COMPUTER SEMINAR DIRECTORY--1970 EDITION.
70 0 0 97 THE LANGUAGES OF COMMUNICATIONS.
(DICTIONNAIRE D'INFORMATIQUE ANGLAIS-FRANCAIS.)
70 11 2 18364 FUNDAMENTALS OF DIGITAL COMPUTERS
70 11 5 18973 CONDENSED COMPUTER ENCYCLOPEDIA

1.50 GENERAL TOPICS AND EDUCATION
EDUCATION - GENERAL

70 0 0 23 THE COMPUTER IN SCHOOL.
70 11 2 18371 YOUR FUTURE IN COMPUTER PROGRAMMING
70 11 2 18372 PREFACE
70 11 2 18373 EDUCATIONAL COMPUTER UTILITIES
70 11 2 18385 AN IN-HOUSE SYSTEMS TRAINING PROGRAM - A CASE STUDY
70 11 2 18410 PROC. SYMPOSIUM ON THE USE OF COMPUTERS IN EDUCATION, FEB. 1968
70 11 2 18438 MULTISTATE EDUCATIONAL DATA PROCESSING
70 11 2 18492 THE IITRAN PROGRAMMING LANGUAGE
70 11 3 18576 BRIGHT FUTURE CAREERS WITH COMPUTERS
70 11 3 18577 COMPUTERS
70 11 3 18581 COMPUTERS - A SELF-TEACHING INTRODUCTION
70 11 3 18582 PRINCIPLES OF COMPUTERS
70 11 3 18587 EDUCATION FOR THE COMPUTER AGE
70 11 4 18758 NUMERICAL METHODS
70 11 4 18859 STUDENT READING CHARACTERISTICS: COMPARING SKILL-LEVELS DEMONSTRATED ON HARDCOPY AND MICROFORM PRESENTATIONS
70 11 5 18973 CONDENSED COMPUTER ENCYCLOPEDIA
70 11 5 19096 ANOTHER METHOD OF CONVERTING FROM HEXADECIMAL TO DECIMAL
70 11 6 19166 COMPUTER SCIENCE: A FIRST COURSE
70 11 8 19507 PROBLEMS IN COMPUTING.
70 11 8 19521 EDUCATION FOR COMMERCIAL A.D.P. STAFF-I. SKILLS REQUIRED AND EXISTING FACILITIES.
70 11 10 19861 COMPUTER CONCEPTS.
70 11 10 19868 COMPUTER COURSES IN AUSTRALIA: 1970.
70 11 11 20037 INTRODUCTION TO COMPUTERS AND DATA PROCESSING.
70 11 11 20040 FUNDAMENTALS OF EDP AND FORTRAN.
70 11 11 20041 A FORTRAN IV PROBLEM SOLVER.
70 11 11 20044 COMPUTER USAGE-360 ASSEMBLY PROGRAMMING.

1.51 GENERAL TOPICS AND EDUCATION
EDUCATION - HIGH SCHOOL COURSES AND PROGRAMS

70 11 2 18372 PREFACE
70 11 2 18374 COMPUTER METHODS IN MATHEMATICS
70 11 2 18496 OPERATION COMPU-TEL - REMOTE USE OF COMPUTERS BY HIGH SCHOOL STUDENTS
70 11 3 18578 COMPUTER SCIENCE: A FIRST COURSE
70 11 4 18778 DATA REDUCTION
70 11 4 18779 HARMONIC MOTION
70 11 4 18946 MEASURING UNCERTAINTY: AN ELEMENTARY INTRODUCTION TO BAYESIAN STATISTICS
70 11 6 19168 COMPUTERS
70 11 10 19867 COMMUNICATING WITH A COMPUTER.
70 11 11 20045 PROGRAMMING FOR A DIGITAL COMPUTER IN THE FORTRAN LANGUAGE.
70 11 12 20226 BASICS OF DIGITAL COMPUTERS.

1.52 GENERAL TOPICS AND EDUCATION
EDUCATION - UNIVERSITY COURSES AND PROGRAMS

70 11 1 18160 COMPUTER DATA PROCESSING
70 11 2 18363 BASIC PROGRAMMING CONCEPTS AND THE IBM 1620 COMPUTER
70 11 2 18375 SIMULATION IN CHEMICAL ENGINEERING TEACHING AND RESEARCH
70 11 2 18376 A SUGGESTED UNIVERSITY-LEVEL CURRICULUM FOR BUSINESS-COMPUTER SYSTEMS
70 11 2 18377 DIGITAL SIMULATION LANGUAGES IN THE ENGINEERING CURRICULUM OF THE UNIVERSITY OF COLORADO
70 11 2 18412 COMPUTER MANAGED INSTRUCTION
70 11 2 18434 MANAGEMENT SYSTEMS
70 11 2 18476 PROGRAMMER'S GUIDE TO THE IBM SYSTEM-360
70 11 2 18477 THE ART OF COMPUTER PROGRAMMING, VOL. 2: SEMINUMERICAL ALGORITHMS
70 11 2 18478 THE ART OF COMPUTER PROGRAMMING, VOL. 2: SEMINUMERICAL ALGORITHMS
70 11 2 18479 PROGRAMING: AN INTRODUCTION TO COMPUTER LANGUAGES AND TECHNIQUES
70 11 3 18578 COMPUTER SCIENCE: A FIRST COURSE
70 11 3 18599 TEACHING USING EXPERIMENTAL MATHEMATICS
70 11 3 18752 ANALOG AND HYBRID MACHINES
70 11 4 18764 COMPUTER SCIENCES VS. SOFTWARE ENGINEERING
70 11 4 18773 COMPUTER SIMULATION OF A MASS SPECTROMETER
70 11 4 18836 INFORMATION SCIENCE EDUCATION: CURRICULUM DEVELOPMENT AND EVALUATION
70 11 4 18837 EDUCATIONAL RESOURCES AND CURRICULUM DEVELOPMENT
70 11 4 18840 FOUNDATIONS OF A CONCEPT FOR AN EDUCATION PROGRAM IN INFORMATION SCIENCE
70 11 4 18841 AN ANLYSIS OF INFORMATION SCIENCE PROGRAMS
70 11 4 18842 EDUCATION IN INFORMATION SCIENCE
70 11 4 18843 INFORMATION SCIENCE: SOME QUESTIONS AND ANSWERS
70 11 4 18844 INFORMATION SCIENCE: TOWARD THE DEVELOPMENT OF A TRUE SCIENTIFIC DISCIPLINE
70 11 4 18862 MODERN CONTROL THEORY AND COMPUTING
70 11 4 18863 A REVIEW OF CLASSICAL METHODS
70 11 5 18978 COMPUTER-AIDED INSTRUCTION FOR UNDERGRADUATES
70 11 5 18979 COMPUTING CAPABILITIES AT ARGENTINE AND CHILEAN UNIVERSITIES
70 11 5 19001 RELATIVISTIC TWO-BODY COLLISIONS
70 11 6 19164 FORTRAN PROGRAMMING
70 11 7 19329 INFORMATION SYSTEMS: DATA PROCESSING AND EVALUATION.
70 11 7 19330 INTRODUCTION TO FORTRAN IV.
70 11 7 19331 A PROGRAM TO TEACH PROGRAMMING.
70 11 7 19349 BALLISTICS.
70 11 7 19350 OPENING THE OTHER END.
70 11 7 19352 CIRCUIT THEORY: AN INTRODUCTION TO THE STATE VARIABLE APPROACH.
70 11 7 19478 COMPUTERS IN THE TEACHING OF STATISTICS: WHERE ARE THE MAIN EFFECTS?
70 11 8 19546 SYSTEMS ANALYSIS.
70 11 8 19561 PROSIM: A PRODUCTION MANAGEMENT SIMULATION.
70 11 9 19859 HYBRID COMPUTATION.
70 11 10 19868 COMPUTER COURSES IN AUSTRALIA: 1970.
70 11 12 20221 FORTRAN IV.

1.52 GENERAL TOPICS AND EDUCATION - EDUCATION

1.53 GENERAL TOPICS AND EDUCATION
EDUCATION - CERTIFICATION, DEGREES, DIPLOMAS

70 11 5 18977 3RD GENERATION SOFTWARE
70 11 11 20039 SOFTWARE FOR COMPUTER SYSTEMS.

1.59 GENERAL TOPICS AND EDUCATION
EDUCATION - MISCELLANEOUS

70 0 0 52 COMPUTERS AND THE SCHOOLS OF BUSINESS.
70 11 1 18169 COMPUTER ASSISTED INSTRUCTION AS AN INFORMATION RETRIEVAL PUBLIC UTILITY
70 11 2 18362 COMPUTERS FOR ENGINEERS
70 11 2 18409 COMPUTERS AND INSTRUCTION AT HUMRRO. (HUMAN RESOURCES RESEARCH ORGANIZATION)
70 11 3 18583 LOGIC TUTORS AND THEIR APPLICATIONS
70 11 3 18600 'PROBLEM SOLVING': A COMPUTER GENERATED EDUCATIONAL FILM
70 11 4 18788 TWO EXPERIMENTS
70 11 5 18980 RECENT DEVELOPMENTS IN LEARNING SOFTWARE
70 11 6 19178 LARRY LEARNS ABOUT COMPUTERS
70 11 6 19182 CAREERS IN DATA PROCESSING
70 11 7 19330 INTRODUCTION TO FORTRAN IV.
70 11 7 19335 FILE ORGANIZATION METHODS.
70 11 7 19335 DIRECT ACCESS STORAGE.
70 11 7 19335 ADVANCED FILE STRUCTURES.
70 11 7 19335 INDEXED SEQUENTIAL ORGANIZATION.
70 11 8 19515 THE INVOLVED GENERATION-COMPUTING PEOPLE AND THE DISADVANTAGED.
70 11 8 19592 LIBRARY AND INFORMATION CENTER MANAGEMENT.
70 11 8 19687 A HANDBOOK OF MODERN KEYPUNCH OPERATIONS.
70 11 9 19785 A DIGITAL SIMULATION PROGRAM FOR EDUCATIONAL USE.
70 11 10 19869 COMPUTER SCIENCE AS A LIBERAL ART.
70 11 11 20210 TELEPROCESSING NETWORK ORGANIZATION.

1.90 GENERAL TOPICS AND EDUCATION
MISCELLANEOUS

70 0 0 124 AN APPROACH TO GENERAL SYSTEMS THEORY.
70 11 2 18368 SEER: A DELPHIC APPROACH APPLIED TO INFORMATION PROCESSING
70 11 2 18378 PRESENTATION OF ALPHAMERIC CHARACTERS FOR INFORMATION PROCFSSING
70 11 9 19717 MAPPING JERUSALEM BY COMPUTER.

2.00 COMPUTING MILIEU
GENERAL

70 11 1 18170 THINK, A BIOGRAPHY OF THE WATSONS AND IBM
70 11 2 18366 ELECTRONIC COMPUTERS: A HISTORICAL SURVEY
70 11 3 18574 PROC. AFIPS 1969 FALL JOINT COMPUTER CONF., VOL. 35, LAS VEGAS, NEVADA, NOV. 1969
70 11 4 18755 ON THE ROLE OF THE ACM JOURNAL
70 11 5 18974 SYSTEMS ANALYSIS FOR EFFECTIVE PLANNING: PRINCIPLES AND CASES
70 11 5 18976 A POLITICO-SOCIAL HISTORY OF ALGOL
70 11 5 19135 APPLICATIONS OF INFORMATION THEORY: DYNAMICAL SYSTEMS. CYBERNETIC SYSTEMS
70 11 6 19163 PURPOSIVE SYSTEMS
70 11 11 20034 DATA PROCESSING ... PRACTICALLY SPEAKING.
70 11 11 20035 DATA PROCESSING.
70 11 12 20218 FOURTH GENERATION COMPUTERS: USER REQUIREMENTS AND TRANSITION.
70 11 12 20224 ARE WE READY FOR PROGRESS?
70 11 12 20225 THE SIGNIFICANCE OF THE NEXT GENERATION: TECHNICAL KEYNOTE PRESENTATION

2.10 COMPUTING MILIEU
PHILOSOPHICAL + SOCIAL IMPLICATIONS - GENERAL

70 0 0 27 BETWEEN TWO AGES.
70 0 0 111 TECHNOLOGICAL CHANGE AND HUMAN DEVELOPMENT.
70 0 0 112 PERSONALIZING INFORMATION PROCESSES: EDUCATIONAL, OCCUPATIONAL AND PERSONAL-SOCIAL.
70 0 0 188 THE DEATH OF PRIVACY.
70 0 0 245 THE REAL COMPUTER: ITS INFLUENCE, USES, AND EFFECTS.
70 11 1 18171 TECHNOLOGY AND HUMANISTIC VALUES
70 11 1 18173 POLITICAL MANIPULATION FROM A CYBERNETIC AND INFORMATION-THEORETICAL VIEW
70 11 2 18379 PUT CYBERNETICS TO THE SERVICE OF COMMUNISM: V
70 11 2 18380 UNDERESTIMATES AND OVEREXPECTATIONS: CAN WE DESIGN COMPUTERS AND THEIR ATTENDANT PROGRAMS WITH A REASONABLE EXPECTATION THAT THEY WILL FUNCTION?
70 11 3 18584 MANAGEMENT OF CONFIDENTIAL INFORMATION
70 11 3 18585 TOWARDS THE COMPUTER UTILITY: EVOLUTION OR REVOLUTION
70 11 4 18757 PROSPECTS OF COMPUTER SCIENCE
70 11 4 18763 CONFIDENTIALITY PROBLEMS RELATED TO DATA-BANKS
70 11 4 18766 INFORMATION UTILITIES
70 11 4 18839 INFORMATION SCIENCE UNLIMITED? . . . A POSITION PAPER
70 11 4 18935 SIMSOC: SIMULATED SOCIETY
70 11 5 18982 A SURVEY OF COMMUNICATION TARIFF DEVELOPMENTS
70 11 6 19179 FACILITATING TECHNOLOGICAL INNOVATION IN SOCIETY
70 11 6 19180 IBM, THE PATENT OFFICE, AND THE SMALL SOFTWARE COMPANY: THE EMERGENCE OF AN INDUSTRY. PART I. THE TALE OF CRAZY FREDDIE
70 11 6 19184 REVOLUTION - 1970
70 11 7 19332 MAN AND THE COMPUTER: TECHNOLOGY AS AN AGENCY OF SOCIAL CHANGE.
70 11 7 19333 COMPUTERS AND TELECOMMUNICATIONS: ISSUES IN PUBLIC POLICY.
70 11 7 19334 THE FORBIN PROJECT.
70 11 7 19397 INFORMATION NEEDS AND USES.
70 11 7 19398 DESIGN AND EVALUATION OF INFORMATION SYSTEMS.
70 11 8 19505 WHAT COMPUTERS CAN DO.
70 11 8 19516 FAIRY TALES FOR COMPUTERS.
70 11 8 19556 THE USE OF COMPUTERS FOR PROFIT: A BUSINESSMAN'S GUIDE.
70 11 9 19709 HOW CAN MACHINES DO WHAT THEIR MAKERS CAN'T?
70 11 9 19745 AN OVERVIEW OF THE INFORMATION PROCESSING AND COMPUTER COMMUNITY.

2.11 COMPUTING MILIEU
PHILOSOPHICAL + SOCIAL IMPLICATIONS - ECO. + SOCIOL. EFFECTS

70 0 0 223 THE IMPACT OF COMPUTERS ON COLLECTIVE BARGAINING.
70 0 0 235 ON RECORD FILES AND DOSSIERS IN AMERICAN LIFE.
70 0 0 236 INFORMATION TECHNOLOGY AND ORGANIZATIONAL CHANGE.
70 11 1 18172 THE SOCIAL IMPACT OF INFORMATION SYSTEMS
70 11 1 18173 POLITICAL MANIPULATION FROM A CYBERNETIC AND INFORMATION-THEORETICAL VIEW
70 11 1 18176 SHOULD COMPANIES BE PERMITTED TO USE ELECTRONIC DATA PROCESSING EQUIPMENT FOR MAINTAINING THEIR CORPORATE RECORD?

2.11 COMPUTING MILIEU - PHILOSOPHICAL AND SOCIAL IMPLICATIONS

0 11 1 18207 SIMULATION OF INFORMATION AND DECISION SYSTEMS IN THE FIRM
0 11 2 18382 REGULATORY DECISIONS AFFECTING THE DATA PROCESSING COMMUNITY: THE FEDERAL COMMUNICATIONS COMMISSION
0 11 3 18586 IMPACT OF COMPUTERS ON THE INDUSTRIAL POWER STRUCTURE
0 11 3 18587 EDUCATION FOR THE COMPUTER AGE
0 11 4 18759 PROBLEMS ENCOUNTERED IN THE APPLICATION OF NETWORK ANALYSIS TECHNIQUES IN PROJECT IMPLEMENTATION IN DEVELOPING COUNTRIES AND PERTINENT RECOMMENDATIONS
0 11 4 18760 AUTOMATIC DATA PROCESSING IN A DEVELOPING COUNTRY: MANAGERIAL PROBLEMS
0 11 4 18761 USE OF INTERDEPENDENCY MATRIX FOR EXPEDITING IMPLEMENTATION OF AN INTEGRATED DEVELOPMENT PROGRAMME IN A DEVELOPING COUNTRY
0 11 4 18762 NETWORK TECHNIQUE UNDER THE ASPECT OF INTERNATIONAL CO-OPERATION
0 11 4 18764 COMPUTER SCIENCES VS. SOFTWARE ENGINEERING
0 11 4 18815 GOVERNMENT POLICY IMPLICATIONS IN DATA MANAGEMENT
0 11 8 19515 THE INVOLVED GENERATION-COMPUTING PEOPLE AND THE DISADVANTAGED.
0 11 8 19519 NEW HORIZONS FOR COMMUNICATIONS.
0 11 8 19557 THE IMPACT OF COMPUTERS ON ORGANIZATIONS.
0 11 9 19699 COMPUTERS AND COMMUNICATIONS: THE ECONOMICS OF INTERDEPENDENCE.
0 11 9 19700 POLICY ISSUES PRESENTED BY THE INTERDEPENDENCE OF COMPUTER AND COMMUNICATIONS SERVICES.
0 11 9 19701 THE SOCIAL IMPACT OF COMPUTERS.
0 11 11 20048 COMPUTING IN SOUTH AMERICA.
0 11 12 20228 COMPUTERS AND PRIVACY: A PROPOSAL FOR SELF-REGULATION.

2.12 COMPUTING MILIEU
PHILOSOPHICAL + SOCIAL IMPLICATIONS - THE PUBLIC + COMPUTERS

0 0 0 51 THE SEARCH FOR THE ROBOTS.
0 0 0 60 THE THEME OF THE MACHINE
0 0 0 80 MAN MODIFIED.
0 0 0 201 CONSCIOUSNESS: A PHILOSOPHIC STUDY OF MINDS AND MACHINES.
0 11 2 18470 CARBINE - A COMPUTER-AUTOMATED REAL-TIME BETTING INFORMATION NETWORK
0 11 4 18763 CONFIDENTIALITY PROBLEMS RELATED TO DATA-BANKS
0 11 4 18794 LAW STUDENT ATTITUDES TOWARD COMPUTERS AND LEGAL RESEARCH
0 11 6 19181 A SEMANTIC DIFFERENTIAL STUDY OF MEANING HELD BY PUBLIC SCHOOL PERSONNEL TOWARD DATA PROCESSING
0 11 6 19182 CAREERS IN DATA PROCESSING
0 11 7 19335 DIRECT ACCESS STORAGE.
0 11 7 19335 INDEXED SEQUENTIAL ORGANIZATION.
0 11 7 19335 FILE ORGANIZATION METHODS.
0 11 7 19335 ADVANCED FILE STRUCTURES.
0 11 8 19515 THE INVOLVED GENERATION-COMPUTING PEOPLE AND THE DISADVANTAGED.
0 11 8 19520 AUTOMATION AND INDUSTRIAL LABOR.
0 11 9 19701 THE SOCIAL IMPACT OF COMPUTERS.
0 11 10 19888 THE TELEPHONE AS A COMPUTER INPUT-OUTPUT TERMINAL FOR MEDICAL INFORMATION
0 11 12 20228 COMPUTERS AND PRIVACY: A PROPOSAL FOR SELF-REGULATION.

2.19 COMPUTING MILIEU
PHILOSOPHICAL + SOCIAL IMPLICATIONS - MISCELLANEOUS

0 11 12 20229 WHAT ABOUT THE COMPUTER UTILITY.

2.20 COMPUTING MILIEU
PROFESSIONAL ASPECTS

0 0 0 55 A JOB WITH A FUTURE IN COMPUTERS.
0 11 1 18174 MANPOWER STATISTICS IN THE INFORMATION PROCESSING FIELD
0 11 2 18381 PROFESSIONALISM IN COMPUTING
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NATURAL SCIENCES - MATHEMATICS, NUMBER THEORY

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) 11 5 18997 GENERALIZED CONSISTENT ORDERING AND THE OPTIMUM SUCCESSIVE OVER-RELAXATION FACTOR
) 11 5 18998 A NUMBER SYSTEM FOR THE PERMUTATIONS
) 11 5 18999 SOLUTION TO HARRISON'S PROBLEM
) 11 6 19194 COMMON PRIME FACTORS OF THE NUMBERS AN = A2N + 1
) 11 6 19285 ON RECURSIVELY DEFINED GEOMETRICAL OBJECTS AND PATTERNS OF GROWTH
) 11 7 19343 COMPUTATIONAL PROBLEMS IN ABSTRACT ALGEBRA.
) 11 7 19344 THE CONSTRUCTION OF THE CHARACTER OF A FINITE GROUP FROM GENERATORS AND RELATIONS.
) 11 7 19345 ON SOME APPLICATIONS OF GROUP-THEORETICAL PROGRAMMES TO THE DERIVATION OF THE CRYSTAL CLASSES OF R4.
) 11 7 19347 COMPUTER EXPERIMENTS ON SEQUENCES WHICH FORM INTEGRAL BASES.
) 11 8 19535 A REAL ROOT CALCULUS.
) 11 8 19667 SIMPLE WORD PROBLEMS IN UNIVERSAL ALGEBRAS.
) 11 8 19712 THE CHARACTERS OF THE WEYL GROUP E8.
) 11 9 19713 A SEARCH FOR SIMPLE GROUPS OF ORDER LESS THAN ONE MILLION.
) 11 9 19716 THE APPLICATION OF COMPUTERS TO RESEARCH IN NON-ASSOCIATIVE ALGEBRAS.
) 11 9 19734 APPLICATIONS OF COMPUTER MODELING AND SIMULATION TO SCIENCE EDUCATION.
) 11 10 20010 MATRIX DECOMPOSITIONS AND STATISTICAL CALCULATIONS.
) 11 11 20078 APPLICATION OF COMPUTER TO ALGEBRAIC TOPOLOGY ON SOME RICOMPLEX MANIFOLDS.

3.16 APPLICATIONS
NATURAL SCIENCES - METEOROLOGY

) 11 11 20066 AN ECONOMICAL METHOD OF PLOTTING CONTOURS.

3.17 APPLICATIONS
NATURAL SCIENCES - PHYSICS, NUCLEAR SCIENCES

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) 0 0 26 METHODS AND PROCEDURES OF MATHEMATICAL PHYSICS, VOL. 2.
) 0 0 48 HANDBOOK OF PHYSICS (2D ED.)
) 0 0 63 COUPLES MODES IN PLASMAS, ELASTIC MEDIA AND PARAMETRIC
) 0 0 88 INTERNATIONAL SYMPOSIUM ON HIGH-SPEED COMPUTING IN FLUID
) 0 0 131 ISOTOPES INFORMATION CENTER KEYWORD THESAURUS.
) 0 0 200 QUASILINEARIZATION AND NONLINEAR PROBLEMS IN FLUID AND ORBITAL (METHODEN UND VERFAHREN DER MATHEMATISCHEN PHYSIK, VOL. 1.) (METHODEN UND VERFAHREN DER MATHEMATISCHEN PHYSIK, VOL. 2.)
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) 11 1 18230 PATTERN RECOGNITION PROBLEMS IN BUBBLE-CHAMBER PHYSICS
) 11 2 18392 CONSTRUCTIVE THERMODYNAMICS
) 11 2 18393 COMPUTER PROCESSING OF RADIATION SENSOR
) 11 2 18394 DIGITAL SIMULATION IN CONTROL SYSTEMS DESIGN OF THE GENTILLY NUCLEAR GENERATING STATION
) 11 2 18395 MACHINE COMPUTATION OF SATURATION PARAMETERS IN A MULTILEVEL

.17 APPLICATIONS - NATURAL SCIENCES

ZEEMAN SYSTEM
70 11 2 18555 ON A CLASS OF CONFIGURATION AND COINCIDENCE PROBLEMS
70 11 3 18590 MONTE CARLO PRINCIPLES AND NEUTRON TRANSPORT PROBLEMS
70 11 3 18591 COMPUTER ALGORITHMS FOR DIRAC ALGEBRA
70 11 3 18710 A NUMERICAL METHOD FOR THE EXTERIOR NEUMANN PROBLEM FOR THE REDUCED WAVE EQUATION
70 11 4 18775 NUCLEAR REACTOR SYSTEMS AND THEIR ASSOCIATED VARIATIONAL AND OPTIMIZATION PROBLEMS
70 11 4 18776 OPTIMAL CONTROL COMPUTATIONS FOR NUCLEAR REACTORS
70 11 4 18777 COMPUTER-BASED PHYSICS: AN ANTHOLOGY
70 11 4 18778 DATA REDUCTION
70 11 4 18779 HARMONIC MOTION
70 11 4 18780 MUONIC-MOLECULE CALCULATIONS BY VARIATION OF FUNCTIONS
70 11 4 18781 MODEL CALCULATION OF PHASE TRANSACTIONS WITH MONTE CARLO
70 11 4 18782 MONTE CARLO EVALUATION OF FEYNMAN PATH INTEGRALS IN IMAGINARY TIME AND SPHERICAL POLAR COORDINATES
70 11 4 18783 A METHOD FOR INCLUDING ARBITRARY EXTERNAL BOUNDARIES IN THE MAC INCOMPRESSIBLE FLUID COMPUTING TECHNIQUE
70 11 4 18784 SPATIAL DIFFERENCING OF THE TRANSPORT EQUATION: POSITIVITY VS. ACCURACY
70 11 4 18788 TWO EXPERIMENTS
70 11 4 18829 PROBLEMS OF PATTERN RECOGNITION IN X-RAY CRYSTALLOGRAPHY
70 11 4 18915 SOLUTION OF A CERTAIN CLASS OF NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 4 18919 KNOWING AND GUESSING: A QUANTITATIVE STUDY OF INFERENCE AND INFORMATION
70 11 5 19000 THE OPTIMIZATION OF PARTICLE CALCULATIONS IN 2 AND 3 DIMENSIONS
70 11 5 19001 RELATIVISTIC TWO-BODY COLLISIONS
70 11 5 19002 MONTE CARLO ANALYSIS OF KNUDSEN FLOW
70 11 6 19195 A COMPACT METHOD FOR SYMBOLIC COMPUTATION OF THE RIEMANN TENSOR
70 11 6 19199 USE OF A TIME-SHARED COMPUTER SYSTEM TO CONTROL A HALL EFFECT EXPERIMENT
70 11 7 19348 INTERNATIONAL NUCLEAR INFORMATION SYSTEM.
70 11 7 19382 PARALLEL COMPUTATION IN PATTERN RECOGNITION.
70 11 7 19439 EVALUATION OF INTEGRALS REQUIRED IN SCATTERING THEORY: I. NON-EXCHANGE TYPE INTEGRALS.
70 11 7 19483 FITTING EXPERIMENTAL DATA.
70 11 8 19537 SPARK CHAMBER FILM DATA REDUCTION.
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70 11 9 19858 USE OF REPETITIVE OPERATION ANALOG COMPUTERS IN SIMULATING PULSED NEUTRON EXPERIMENTS.
70 11 10 19918 DEVELOPMENT OF A COMPUTER SYSTEM WITH CONSOLE CAPABILITY FOR THE NUCLEAR SAFETY INFORMATION CENTER.
70 11 10 19959 EXPERIENCE WITH CUBIC SPLINES IN THE GRADUATION OF NEUTRON CROSS-SECTION DATA.
70 11 10 19993 NUMERICAL ANALYSIS OF AN ELLIPTIC-PARABOLIC PARTIAL DIFFERENTIAL EQUATION.
70 11 11 20178 MESH REFINEMENTS FOR THE HEAT EQUATION.
70 11 12 20239 SIMPLIFIED NEUTRON KINETICS WITH KNOWN APPROXIMATION ERROR.

3.19 APPLICATIONS
NATURAL SCIENCES - MISCELLANEOUS

70 11 2 18509 MATRIX-COMPUTER METHODS IN ENGINEERING
70 11 8 19538 THE GROPE-1 SYSTEM ANALYSIS OF FRICTION AND BACKLASH PROBLEMS.
70 11 8 19554 RESEARCH IN AUTOMATIC RUSSIAN-ENGLISH SCIENTIFIC AND TECHNICAL LEXICOGRAPHY.
70 11 10 19962 THE FAST FOURIER TRANSFORM AND ITS APPLICATIONS.

3.20 APPLICATIONS
ENGINEERING - GENERAL

70 11 1 18190 BASIC GRAPHICS
70 11 1 18191 MATRIX COMPUTER ANALYSIS OF STRUCTURES
70 11 2 18377 DIGITAL SIMULATION LANGUAGES IN THE ENGINEERING CURRICULUM OF THE UNIVERSITY OF COLORADO
70 11 2 18379 PUT CYBERNETICS TO THE SERVICE OF COMMUNISM: V
70 11 2 18495 AN ECONOMICAL DISPLAY SYSTEM
70 11 3 18691 HANDBOOK OF NUMERICAL METHODS AND APPLICATIONS
70 11 4 18785 ON DEFINING THE SIMULATION PROCESS
70 11 4 18862 MODERN CONTROL THEORY AND COMPUTING
70 11 5 19083 THE Q APPROACH TO PROBLEM SOLVING
70 11 6 19324 HYBRID SYSTEM PROGRAMS
70 11 7 19327 INTRODUCTION TO COMPUTER ENGINEERING.
70 11 7 19349 BALLISTICS.
70 11 7 19350 OPENING THE OTHER END.
70 11 7 19455 COMPUTATIONAL METHODS IN PARTIAL DIFFERENTIAL EQUATIONS.
70 11 8 19546 SYSTEMS ANALYSIS.
70 11 8 19668 NETWORK FLOW, TRANSPORTATION AND SCHEDULING: THEORY AND ALGORITHMS.
70 11 8 19688 DETERMINATION OF THE TIME-DOMAIN EQUIVALENTS OF HIGHERORDER LAPLACE TRANSFER FUNCTIONS BY ANALOG COMPUTATION.
70 11 9 19722 MATHEMATICAL PROGRAMMING IN ECONOMICS BY PHYSICAL ANALOGIES. PART I: THE ANALOGY BETWEEN ENGINEERING AND ECONOMICS.
70 11 9 19734 APPLICATIONS OF COMPUTER MODELING AND SIMULATION TO SCIENCE EDUCATION.
70 11 9 19780 DCDS DIGITAL SIMULATING SYSTEM.
70 11 9 19786 MARSYAS-A SOFTWARE SYSTEM FOR THE DIGITAL SIMULATION OF PHYSICAL SYSTEMS.
70 11 9 19807 DIGITAL COMPUTER METHODS IN ENGINEERING.
70 11 10 19972 SOLUTION TO THE COMPLEX EIGENPROBLEM BY A NORM REDUCING JACOBI TYPE METHOD.

3.21 APPLICATIONS
ENGINEERING - AERONAUTICAL, SPACE

70 0 0 139 SPACE SCIENCES DATA PROCESSING.
70 11 2 18396 INTERACTIVE GRAPHICS IN AIRCRAFT LANDING AND TAKE-OFF STUDIES
70 11 2 18571 THE THUMBWHEEL SWITCH AS A DATA ENTRY DEVICE
70 11 3 18592 A MODIFIED NEWTON-RAPHSON METHOD FOR DETERMINING STABILITY DERIVATIVES FROM FLIGHT DATA
70 11 3 18593 A HYBRID FREQUENCY RESPONSE TECHNIQUE AND ITS APPLICATION TO AIRCRAFT FLIGHT FLUTTER TESTING
70 11 4 18912 NUMERICAL SOLUTION OF THE BOUNDARY LAYER EQUATIONS WITH SLIP BOUNDARY CONDITIONS, PART I
70 11 5 19003 AN ALGORITHM FOR CONVEX POLYTOPES
70 11 5 19075 A KALMAN-FILTER TRACKING PROGRAM FOR ILLIAC IV
70 11 6 19306 DIGITAL LETDOWN COMPUTER FOR VERTICAL GUIDANCE
70 11 7 19371 INTERACTIVE COMPUTER GRAPHICS AT ROLLS-ROYCE.
70 11 7 19419 THE GENERAL ELECTRIC COMPUTER COLOR TV DISPLAY.
70 11 7 19491 A COMPATIBLE AIRBORNE MULTIPROCESSOR.
70 11 7 19493 DIGITAL ADAPTIVE-ELEMENT BUILDING BLOCKS FOR MOS LARGE-SCALE

3.21 APPLICATIONS - ENGINEERING

INTEGRATION.
70 11 7 19502 THE ANGULAR DISTORTIONS OF A WIDE-ANGLE VIRTUAL IMAGE OPTICAL SYSTEM.
70 11 8 19539 COMPUTATION OF SHOCK-FREE TRANSONIC FLOWS FOR AIR FOIL DESIGN.
70 11 8 19609 REAL TIME SPACE VEHICLE AND GROUND SUPPORT SYSTEMS SOFTWARE SIMULATOR FOR LAUNCH PROGRAMS CHECKOUT.
70 11 9 19729 INITIAL SYSTEM PROCEDURES, TECHNIQUES, AND OPERATIONAL CONSTRAINTS.
70 11 9 19730 COST EFFECTIVENESS ANALYSIS.
70 11 11 20209 AEROSPACE COMPUTERS.
70 11 12 20250 DEVELOPMENT AND EVALUATION OF A DIGITAL COMPUTER PROGRAM FOR AUTOMATIC HUMAN PERFORMANCE MONITORING IN FLIGHT SIMULATOR TRAINING.

3.22 APPLICATIONS
ENGINEERING - CHEMICAL

70 11 1 18192 A SIMULATION MODEL FOR THE STUDY OF THE MOTION OF RANDOM-COIL POLYMER CHAINS
70 11 2 18375 SIMULATION IN CHEMICAL ENGINEERING TEACHING AND RESEARCH
70 11 [illegible] 19532 COMPUTER ASSISTED SPECTROSCOPY.
70 11 [illegible] 19541 MULTICOMPONENT BATCH DISTILLATION SIMULATION ON A IBM 1130 COMPUTER.

3.23 APPLICATIONS
ENGINEERING - CIVIL

70 0 0 65 QUANTITY SURVEYING--A FULLY METRICATED TEXT.
70 0 0 122 MATRIX AND DIGITAL COMPUTER METHODS IN STRUCTURAL ANALYSIS.
70 0 0 132 SUMMARY OF THE FUNCTIONS AND CAPABILITIES OF THE STRUCTURAL ANALYSIS AND MATRIX INTERPRETIVE SYSTEM COMPUTER PROGRAM.
70 11 1 18193 HABEAS - A STRUCTURAL DYNAMICS ANALYSIS SYSTEM
70 11 1 18194 MULTI-STORY PORTICOS, SIMPLIFIED HARMONIC ANALYSIS FOR ANTISEISMIC DESIGN
70 11 3 18595 THE EXTENSION OF NETWORK ANALYSIS TO THE CO-ORDINATION OF DESIGN AND CONSTRUCTION
70 11 3 18596 A NETWORK SIMULATION SYSTEM IN ARCHITECTURAL PLANNING
70 11 5 19004 A COMPUTER TERRAIN MODEL FOR DETERMINING LINE OF SIGHT
70 11 5 19112 ON SOME FINITE ELEMENT PROCEDURES FOR SOLVING SECOND ORDER BOUNDARY VALUE PROBLEMS
70 11 6 19316 DESIGN OF ARCHITECT'S PLANS BY MEANS OF COMPUTERS
70 11 7 19351 TWO DIMENSIONAL WAVE PROPAGATION THROUGH NONLINEAR MEDIA.
70 11 7 19355 THE NON-UNIFORM CYLINDRICAL DIPOLE ANTENNA.
70 11 9 19754 UTS-I: A MACRO SYSTEM FOR TRAFFIC NETWORK SIMULATION.

3.24 APPLICATIONS
ENGINEERING - ELECTRICAL, ELECTRONIC

70 0 0 42 INTRODUCTION TO NONLINEAR NETWORK THEORY.
70 0 0 56 INTRODUCTION TO IMPULSE ANALYSIS: PRINCIPLES AND APPLICATIONS.
70 0 0 66 BASIC CIRCUIT THEORY.
70 0 0 81 ELECTRONIC INTEGRATED CIRCUITS AND SYSTEMS.
70 0 0 115 ACTIVE FILTERS: LUMPED, DISTRIBUTED, INTEGRATED, DIGITAL, AND
70 0 0 117 HANDBOOK OF SEMICONDUCTOR ELECTRONICS.
70 0 0 119 NETWORK FLOW, TRANSPORTATION AND SCHEDULING: THEORY AND
70 0 0 129 COMPUTER-AIDED DESIGN OF MAGNETIC CIRCUITS.
70 0 0 135 DATA BOOK FOR ELECTRONIC TECHNICIANS AND ENGINEERS.
70 0 0 136 LINEAR SYSTEMS ANALYSIS.
70 0 0 144 COMPUTER AIDED ANALYSIS AND DESIGN FOR ELECTRICAL ENGINEERS.
70 0 0 145 INTRODUCTION TO COMPUTER ANALYSIS: ECAP FOR ELECTRONICS
70 0 0 154 NETWORK THEORY.
70 0 0 212 DIGITAL ELECTRONICS WITH ENGINEERING APPLICATIONS.
70 0 0 228 HANDBOOK OF PULSE-DIGITAL DEVICES FOR COMMUNICATION AND DATA (INTRODUCTION A L'ANALYSE IMPULSIONNELLE PRINCEPE ET APPLICATION.)
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TECHNICIANS AND ENGINEERS.
PROCESSING.
70 11 1 18178 OPINION POLL RESULTS: OUTPUT GRAPHICS DESIRED BY ELECTRONIC DESIGN ENGINEERS
70 11 1 18195 LINEAR CIRCUIT ANALYSIS BY SYMBOLIC ALGEBRA
70 11 1 18235 IMAGES FROM COMPUTERS AND MICROFILM PLOTTERS
70 11 1 18340 PROPERTIES OF INFINITE COVARIANCE MATRICES AND STABILITY OF OPTIMUM PREDICTORS
70 11 1 18350 UNIFORM MODULAR REALIZATION OF SEQUENTIAL MACHINES
70 11 1 18354 A BRANCH-BOUND ALGORITHM FOR A WIRING PROBLEM
70 11 2 18370 APPLICATION OF SIMULATION TO THE GENERALIZED OPTIMIZATION OF PROCESS CONTROL SYSTEMS
70 11 2 18393 COMPUTER PROCESSING OF RADIATION SENSOR
70 11 2 18397 NETWORK COMPUTER ANALYSIS
70 11 2 18398 A DIGITAL COMPUTER TECHNIQUE FOR CALCULATING THE STEP RESPONSE OF LUMPED OR DISTRIBUTED NETWORKS
70 11 2 18399 STABILITY STUDY OF RANDOMLY SAMPLED NONLINEAR CONTROL SYSTEMS
70 11 2 18400 CALCULATION OF ARMATURE SLOT FIELD DISTRIBUTION
70 11 2 18401 SIMULATION OF A SAMPLE-AVERAGE FILTER
70 11 2 18473 NUMERICAL CONTROL
70 11 2 18547 AN AUTOMATED DESIGN FORMULATION FOR INTEGRATED CIRCUITS
70 11 2 18564 METHODS USED IN AN AUTOMATIC LOGIC DESIGN GENERATOR (ALERT)
70 11 3 18739 NONLINEAR FILTERING AND SAMPLING EXPANSIONS
70 11 3 18745 TREATMENT OF DELAYS IN ASYNCHRONOUS NETWORKS
70 11 3 18752 ANALOG AND HYBRID MACHINES
70 11 3 18753 INTRODUCTION TO ANALOG COMPUTATION
70 11 5 18999 SOLUTION TO HARRISON'S PROBLEM
70 11 6 19196 SOME ADVANCES IN THE THEORY OF DISTRIBUTED NETWORKS
70 11 6 19197 AN INTERACTIVE COMPUTER SYSTEM USING GRAPHICAL FLOWCHART INPUT
70 11 6 19198 TRENDS IN COMPUTER-AIDED CIRCUIT DESIGN (CACD)
70 11 6 19262 TESLA, A CONTROL LANGUAGE FOR LOGIC SIMULATIONS OF DIGITAL CIRCUITS
70 11 6 19294 GENERALIZED PROGRAMMING SOLUTION OF OPTIMAL CONTROL PROBLEMS
70 11 6 19302 AN ANALYSIS OF THE REGRESSION MODEL FOR NONSATURATING LOGIC CIRCUIT ANALYSIS
70 11 6 19304 AN ALGORITHM FOR NAND DECOMPOSITION UNDER NETWORK CONSTRAINTS
70 11 6 19305 A TIME-SHARED DIGITAL FILTER REALIZATION
70 11 6 19307 PAPERS ON DIGITAL SIGNAL PROCESSING
70 11 6 19314 SOLVING ARTWORK GENERATION PROBLEMS BY COMPUTER
70 11 6 19322 AN INTEGRATED LINEAR-TRANSCONDUCTANCE ANALOG MULTIPLIER
70 11 7 19352 CIRCUIT THEORY: AN INTRODUCTION TO THE STATE VARIABLE APPROACH.
70 11 7 19487 READILY PROGRAMMABLE PROCEDURES FOR THE ANALYSIS OF NONLINEAR FEEDBACK SHIFT REGISTERS.
70 11 8 19511 BOOLEAN ALGEBRA WITH COMPUTER APPLICATIONS.
70 11 8 19542 FILTER SYSTEMS AND DESIGN: ELECTRICAL, MICROWAVE, AND DIGITAL.
70 11 8 19602 TELECOMMUNICATIONS AND THE COMPUTER.
70 11 9 19719 INTEGRATED ELECTRONICS.

3.24 APPLICATIONS - ENGINEERING

70 11 10 19919 THEORY OF NONLINEAR CONTROL SYSTEMS.
70 11 10 19952 ERROR DETECTING DECIMAL CODES.
70 11 10 19962 THE FAST FOURIER TRANSFORM AND ITS APPLICATIONS.
70 11 10 20028 18 BIT DIGITAL TO ANALOG CONVERSION.
70 11 11 20200 THE ROLE OF ACTIVITY PRECEDENCE RELATIONSHIPS IN NODEORIENTED NETWORKS.

3.25 APPLICATIONS
ENGINEERING - ENGINEERING SCIENCE

70 0 0 122 MATRIX AND DIGITAL COMPUTER METHODS IN STRUCTURAL ANALYSIS.
70 0 0 132 SUMMARY OF THE FUNCTIONS AND CAPABILITIES OF THE STRUCTURAL ANALYSIS AND MATRIX INTERPRETIVE SYSTEM COMPUTER PROGRAM.
70 11 1 18193 HABEAS - A STRUCTURAL DYNAMICS ANALYSIS SYSTEM
70 11 1 18268 SIGEC: A LANGUAGE ORIENTED TO THE SOLUTION OF GEOMETRIC PROBLEMS IN ENGINEERING
70 11 2 18491 A SLANG SIMULATION OF THE PROPAGATION OF AN INITIALLY STRONG SHOCK WAVE DOWNSTREAM OF AN INFINITE AREA CHANGE
70 11 3 18635 ENGINEERING PRINCIPLES OF PATTERN RECOGNITION
70 11 4 18786 DIRECTED LIBRARY SEARCH TO MINIMIZE COST
70 11 4 18972 A TOUCH SENSITIVE X-Y POSITION ENCODER FOR COMPUTER INPUT

3.26 APPLICATIONS
ENGINEERING - MECHANICAL

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70 11 [illegible] 18402 ENGINEERING DESIGN: THE CHOICE OF FAVORABLE SYSTEMS
70 11 5 19005 AN EVENING DESIGNING WITH A COMPUTER
70 11 11 20080 AIRCRAFT LANDING GEAR BRAKE SQUEAL AND STRUT CHATTER SIMULATION.

3.29 APPLICATIONS
ENGINEERING - MISCELLANEOUS

70 11 1 18193 HABEAS - A STRUCTURAL DYNAMICS ANALYSIS SYSTEM
70 11 2 18362 COMPUTERS FOR ENGINEERS
70 11 2 18394 DIGITAL SIMULATION IN CONTROL SYSTEMS DESIGN OF THE GENTILLY NUCLEAR GENERATING STATION
70 11 2 18403 SIMULATION AND OPTIMIZATION OF AN ELECTROMECHANICAL TRANSDUCER
70 11 2 18509 MATRIX-COMPUTER METHODS IN ENGINEERING
70 11 3 18594 THE USE OF A REMOTE TERMINAL INPUT SYSTEM FOR SIMULATION OF A STEAM PRESSURE SYSTEM
70 11 3 18595 THE EXTENSION OF NETWORK ANALYSIS TO THE CO-ORDINATION OF DESIGN AND CONSTRUCTION
70 11 3 18596 A NETWORK SIMULATION SYSTEM IN ARCHITECTURAL PLANNING
70 11 3 18682 SYSTEM SIMULATION
70 11 4 18870 NETWORK ANALYSIS FOR SHORT-DURATION PROJECTS
70 11 4 18871 SOME RESULTS OF CONNECTING (AGGREGATING) NETWORKS IN BUILDING
70 11 4 18872 HOW TO IMPROVE PROJECT CONTROL
70 11 5 18974 SYSTEMS ANALYSIS FOR EFFECTIVE PLANNING: PRINCIPLES AND CASES
70 11 5 19067 THE ENGINEER: HIS WORK AND NEEDS FOR INFORMATION
70 11 6 19199 USE OF A TIME-SHARED COMPUTER SYSTEM TO CONTROL A HALL EFFECT EXPERIMENT
70 11 6 19315 THE DRAWING MACHINE CONTROL GEAGRAPH 2000
70 11 7 19357 MATHEMATICAL AIDS OF THE ENGINEER.
70 11 7 19427 COMBINED DISCRETE EVENT CONTINUOUS SYSTEMS SIMULATION.
70 11 7 19483 FITTING EXPERIMENTAL DATA.
70 11 8 19534 A NUMERICAL METHOD FOR THE STUDY OF THE CIRCULATION OF THE WORLD OCEAN.
70 11 8 19554 RESEARCH IN AUTOMATIC RUSSIAN-ENGLISH SCIENTIFIC AND TECHNICAL LEXICOGRAPHY.

3.30 APPLICATIONS
SOCIAL AND BEHAVIORAL SCIENCES - GENERAL

70 0 0 74 COMPUTER PROGRAMMING FOR BUSINESS AND SOCIAL SCIENCE.
70 0 0 113 CONTENT ANALYSIS FOR THE SOCIAL SCIENCES AND HUMANITIES.
70 0 0 127 MATHEMATICAL SCIENCES AND SOCIAL SCIENCES.
70 0 0 199 SIMULATION AND SOCIETY--AN EXPLORATION OF SCIENTIFIC GAMING.
70 11 1 18160 COMPUTER DATA PROCESSING
70 11 1 18171 TECHNOLOGY AND HUMANISTIC VALUES
70 11 1 18247 AUTONOTE: A PERSONAL INFORMATION STORAGE AND RETRIEVAL SYSTEM
70 11 2 18379 PUT CYBERNETICS TO THE SERVICE OF COMMUNISM: V
70 11 2 18404 COMPUTER CARTOGRAPHY RANGE MAP
70 11 2 18440 THE COMPREHENSIVE UNIFIED LAND DATA SYSTEM
70 11 2 18557 MIXED-DATA CLASSIFICATORY PROGRAMS - III. DIAGNOSTIC SYSTEMS
70 11 3 18660 STATISTICAL DATA COLLECTIONS IN UNIVERSITY RESEARCH LIBRARIES
70 11 4 18759 PROBLEMS ENCOUNTERED IN THE APPLICATION OF NETWORK ANALYSIS TECHNIQUES IN PROJECT IMPLEMENTATION IN DEVELOPING COUNTRIES AND PERTINENT RECOMMENDATIONS
70 11 [illegible] 18760 AUTOMATIC DATA PROCESSING IN A DEVELOPING COUNTRY: MANAGERIAL PROBLEMS
70 11 4 18762 NETWORK TECHNIQUE UNDER THE ASPECT OF INTERNATIONAL CO-OPERATION
70 11 4 18785 ON DEFINING THE SIMULATION PROCESS
70 11 4 18958 INFORMATION SCIENCE AS AN INTEGRATIVE DISCIPLINE
70 11 5 19006 COMPLEX ORGANIZATIONAL PROCESSES
70 11 6 19163 PURPOSIVE SYSTEMS
70 11 6 19236 SOCIAL PROCESS MODELING: A COMPARISON OF A LIVE AND COMPUTERIZED SIMULATION
70 11 6 19299 ROBOT DATA SCREENING - A UBIQUITOUS AUTOMATIC SEARCH TECHNIQUE
70 11 8 19517 AUTOMATION AND CYBERNETICS.
70 11 8 19595 THE FINAL REPORT OF THE COMPARATIVE SYSTEMS LABORATORY: A REVIEW.
70 11 8 19600 ADVANCES IN CONTROL SYSTEMS: THEORY AND APPLICATIONS.
70 11 8 19617 INCORPORATING COMPLEX DATA STRUCTURES INTO A LANGUAGE FOR SOCIAL
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70 11 9 19694 COMMUNICATIONS TECHNOLOGY-A FORECAST OF CHANGE.
70 11 9 19695 ON THE IMPACT OF THE NEW COMMUNICATIONS MEDIA UPON SOCIAL VALUES.
70 11 9 19807 DIGITAL COMPUTER METHODS IN ENGINEERING.
70 11 10 19870 THE WORLD'S BIGGEST DATA BANK.
70 11 10 20004 CRITERION FUNCTION FOR ACCESSIBILITY, UNCERTAINTY PROBLEMS IN REGIONAL LAND-USE PLANNING.
70 11 11 20207 A PROGRAM FOR NUMERICAL CLASSIFICATION.
70 11 11 20208 AN IMPROVED ALGORITHM FOR THE JARDINE-SIBSON METHOD OF GENERATING OVERLAPPING CLUSTERS.
70 11 [illegible] 20241 INFORMATION PROCESSING-APPLICATIONS IN THE SOCIAL AND BEHAVIORAL SCIENCES.

3.30 APPLICATIONS - SOCIAL AND BEHAVIORAL SCIENCES

3.31 APPLICATIONS
SOCIAL AND BEHAVIORAL SCIENCES - ECONOMICS

0 0 0 13 DYNAMIC PROGRAMMING OF ECONOMIC DECISIONS.
0 0 0 156 TECHNOLOGICAL ADVANCE IN AN EXPANDING ECONOMY: ITS IMPACT ON A
0 0 0 176 MICROECONOMICS AND DECISION MODELS.
0 0 0 206 PL I FOR PROGRAMMERS.
0 0 0 223 THE IMPACT OF COMPUTERS ON COLLECTIVE BARGAINING. CROSS-SECTION OF THE LABOR FORCE.
0 11 1 18338 GAME STRATEGY AND COLLUSION IN AN OLIGOPOLISTIC MARKET
0 11 3 18597 THE CORE OF AN N PERSON GAME
0 11 3 18622 QUANTITATIVE METHODS FOR BUSINESS AND ECONOMIC ANALYSIS
0 11 3 18630 THE DESIGN OF COMPUTER SIMULATION EXPERIMENTS
0 11 3 18697 LINEAR ALGEBRA OF ECONOMICS
0 11 4 18761 USE OF INTERDEPENDENCY MATRIX FOR EXPEDITING IMPLEMENTATION OF AN INTEGRATED DEVELOPMENT PROGRAMME IN A DEVELOPING COUNTRY
0 11 4 18787 THE DESIGN OF COMPUTER SIMULATION EXPERIMENTS
0 11 5 19007 RECURSIVE PROGRAMMING OF INDUSTRIAL PERFORMANCE: A CASE STUDY OF THE U.S. IRON AND STEEL INDUSTRY
0 11 5 19008 THE EVALUATION OF ECONOMIC POLICIES
0 11 5 19009 NON-LINEAR ECONOMETRIC MODELS
0 11 6 19209 CRITICAL PATH PLANNING
0 11 7 19358 PLANNING, PROGRAMMING AND INPUT-OUTPUT MODELS. SELECTED PAPERS ON INDIAN PLANNING.
0 11 ■ 19560 LINEAR PROGRAMMING OF INCOME TAX RATES.
0 11 ■ 19708 FUTURE OF EAST-WEST EDP TRADE.
0 11 9 19750 CURRENT DEVELOPMENTS TOWARD AN IMPROVED PAYMENTS SYSTEM.
0 11 1■ 20279 TOWARDS AN INTEGRATED ECONOMIC INFORMATION SYSTEM AT THE NATIONAL LEVEL.

3.32 APPLICATIONS
SOCIAL AND BEHAVIORAL SCIENCES - EDUCATION, WELFARE

70 0 0 6 COMPUTER-ASSISTED INSTRUCTION: A BOOK OF READINGS.
70 0 0 23 THE COMPUTER IN SCHOOL.
70 0 0 71 THE COMPUTER UTILITY: IMPLICATIONS FOR HIGHER EDUCATION.
70 0 0 227 SIMULATION AND GAMING IN EDUCATION.
70 11 1 18169 COMPUTER ASSISTED INSTRUCTION AS AN INFORMATION RETRIEVAL PUBLIC UTILITY
70 11 1 18196 CHIBCHA-I, FIRST ELECTRONIC COMPUTER 'BUILT' IN COLOMBIA
70 11 1 18197 A PROBLEM ORIENTED COMPUTER-BASED INSTRUCTIONAL PROCEDURE
70 11 1 18198 A PROTOTYPE COMPUTER ASSISTED INSTRUCTION ON A GENERAL PURPOSE COMPUTER
70 11 1 18199 TEACHING MACHINE PROGRAMS THAT GENERATE PROBLEMS AS A FUNCTION OF INTERACTION WITH STUDENTS
70 11 1 18200 TEACHING HEART FUNCTION - ONE APPLICATION OF MEDICAL COMPUTER ANIMATION
70 11 1 18286 MATHEMATICAL FOUNDATIONS OF SYSTEMS ANALYSIS
70 11 2 18372 PREFACE
70 11 2 18373 EDUCATIONAL COMPUTER UTILITIES
70 11 2 18405 THE ROLE OF COMPUTERS IN INSTRUCTIONAL SYSTEMS: PAST AND FUTURE
70 11 2 18406 COMPUTER-MANAGED INSTRUCTION
70 11 2 18407 A REVIEW OF DEVELOPMENTS IN COMPUTER ASSISTED INSTRUCTION
70 11 2 18408 PROMISING DEVELOPMENTS IN COMPUTER ASSISTED INSTRUCTION
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70 11 2 18413 INSTRUCTIONAL USES OF INTERACTIVE COMPUTER SYSTEMS
70 11 2 18413 CAI - THE NEW DEMONOLOGY?
70 11 2 18413 CAI LANGUAGES: CAPABILITIES AND APPLICATIONS
70 11 2 18424 A MATCH-TO-SUCCESSIVE-SAMPLE-DEVICE SYSTEM WITH PAPER TAPE INPUT-OUTPUT UNIT
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70 11 5 19010 SIMULATION GAMES IN LEARNING
70 11 5 19011 AUTOMATION AND EDUCATIONAL PROBLEMS
70 11 5 19012 THE BAKKALAUREUS AND ITS USEFULNESS IN AUTOMATIC INSTRUCTION
70 11 5 19013 PROGRAMMED INSTRUCTION AND AUTOMATION IN TEACHING: CONVERGENCE AND CONTRAST WITH THE REQUIREMENTS OF AN ACTIVE AND SOCIALIZING STRUCTURE
70 11 5 19014 THE TEACHING REVOLUTION AND THE EDUCATION INDUSTRY
70 11 5 19015 EDUCATIONAL TECHNOLOGY AT LOUGHBOROUGH
70 11 5 19016 AUTOMATION OF INSTRUCTION IN A UNIVERSITY COURSE
70 11 5 19017 A SYSTEMS APPROACH TO ASPECTS OF PRIMARY EDUCATION
70 11 5 19018 TELEVISION AS A TEACHING MACHINE
70 11 5 19019 COMPUTER ASSISTED INSTRUCTION EXPERIENCES IN IBM
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70 11 5 19022 SIMULATION EXERCISES IN CLINICAL DIAGNOSIS USING A COMPUTER BASED SYSTEM
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70 11 5 19046 THE USE OF PROGRAMMED INSTRUCTION IN COMPANY MANAGEMENT AND INDUSTRIAL TRAINING - ECONOMIC AND PRACTICAL CONSIDERATIONS
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SOCIAL AND BEHAVIORAL SCIENCES - LAW

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SOCIAL AND BEHAVIORAL SCIENCES - MEDICINE, HEALTH

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70 11 9 18415 THE POSSIBILITY OF USING ELECTRONIC PROCESSORS IN PSYCHIATRY
70 11 2 18416 UPDATE: A COMPUTER PROGRAM FOR CONVERTING DIAGNOSES TO THE NEW NOMENCLATURE OF THE AMERICAN PSYCHIATRIC ASSOCIATION
70 11 2 18417 THEORETICAL PROBLEMS OF BIOCYBERNETICS
70 11 2 18421 COMPUTER-BASED STUDY OF MENTAL RETARDATION
70 11 2 18423 ELECTRONIC COMPUTER TECHNIQUES IN THE STUDY OF THE BRAIN
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70 11 5 19028 CLINICAL INFORMATION PROCESSING BY COMPUTER
70 11 5 19029 SETTING UP A GENERAL-PURPOSE DATA-ACQUISITION SYSTEM
70 11 5 19030 APPLICATION OF PATTERN RECOGNITION TO BIOMEDICAL PROBLEMS
70 11 5 19031 SOME DATA TRANSFORMATIONS USEFUL IN ELECTROCARDIORAPHY
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70 11 6 19190 ANALOG INKED-TRACE READER FOR AUTOMATIC CONTINUOUS HIGH-SPEED MULTI-CHANNEL DIGITIZATION
70 11 6 19191 SCANDINAVIAN EEG SOCIETY: COMPUTER FREQUENCY ANALYSIS OF THE ELECTROENCEPHALOGRAM
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70 11 6 19193 EVALUATING MEMBRANE POTENTIAL AND SPIKE PATTERNS BY EXPERIMENTER-CONTROLLED COMPUTER DISPLAYS
70 11 6 19200 COMPUTER-BASED PATIENT MONITORING
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70 11 2 18404 COMPUTER CARTOGRAPHY RANGE MAP
70 11 3 18605 IDENTIFICATION OF GOVERNING SYSTEMS BY PARTIAL DIFFERENTIAL EQUATIONS
70 11 4 18761 USE OF INTERDEPENDENCY MATRIX FOR EXPEDITING IMPLEMENTATION OF AN INTEGRATED DEVELOPMENT PROGRAMME IN A DEVELOPING COUNTRY
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70 11 2 18415 THE POSSIBILITY OF USING ELECTRONIC PROCESSORS IN PSYCHIATRY
70 11 2 18416 UPDATE: A COMPUTER PROGRAM FOR CONVERTING DIAGNOSES TO THE NEW NOMENCLATURE OF THE AMERICAN PSYCHIATRIC ASSOCIATION
70 11 2 18417 THEORETICAL PROBLEMS OF BIOCYBERNETICS
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70 11 2 18419 ON THE PSYCHOLOGICAL IMPORTANCE OF TIME IN A TIME SHARING SYSTEM
70 11 2 18420 INFORMATION SYSTEM PSYCHOLOGY
70 11 2 18421 COMPUTER-BASED STUDY OF MENTAL RETARDATION
70 11 2 18422 COMPUTER CONTENT ANALYSIS FOR MEASURING ATTITUDES: THE ASSESSMENT OF QUALITIES AND PERFORMANCES
70 11 2 18423 ELECTRONIC COMPUTER TECHNIQUES IN THE STUDY OF THE BRAIN
70 11 2 18424 A MATCH-TO-SUCCESSIVE-SAMPLE-DEVICE SYSTEM WITH PAPER TAPE INPUT-OUTPUT UNIT
70 11 2 18428 DESIGN OF COMPUTER PROGRAMS FOR MULTIVARIATE CLASSIFICATION IN CONTENT ANALYSIS
70 11 2 18431 THE NEW PHILOLOGY: AN OLD DISCIPLINE OR A NEW SCIENCE?
70 11 2 18444 MAN-COMPUTER COMMUNICATION TECHNIQUES: TWO EXPERIMENTS
70 11 2 18573 DETERMINING THE TRANSFER FUNCTION OF THE OPERATOR BY MEANS OF A SELF-REGULATING ANALOG COMPUTER
70 11 3 18598 A COMPARISON OF THE EFFECTIVENESS OF FEEDBACK MODES FOR TEACHING SCIENCE CONCEPTS BY MEANS OF A COMPUTER-ASSISTED ADJUNCT AUTO-INSTRUCTION PROGRAM
70 11 3 18602 EQUILIBRIUM BEHAVIOR OF POPULATION GENETIC MODELS WITH NON-RANDOM MATING, I. PRELIMINARIES AND SPECIAL MATING SYSTEMS
70 11 3 18606 COMPUTER SCIENCE AND THE ENRICHMENT OF PSYCHOLOGICAL RESEARCH
70 11 3 18607 STOCHASTIC MODELING OF HUMAN LEARNING BEHAVIOR
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70 11 5 19032 LEARNING AND MEMORY IN A DISCRIMINATION NET
70 11 5 19128 GAME THEORY IN THE BEHAVIORAL SCIENCES
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70 11 6 19190 ANALOG INKED-TRACE READER FOR AUTOMATIC CONTINUOUS HIGH-SPEED MULTI-CHANNEL OPERATION
70 11 6 19191 SCANDINAVIAN EEG SOCIETY: COMPUTER FREQUENCY ANALYSIS OF THE ELECTROENCEPHALOGRAM
70 11 6 19192 SCANDINAVIAN EEG SOCIETY: AUTOMATIC EEG TAPE COMPUTER SYSTEM FOR ANALOG-DIGITAL DATA PROCESSING OF FREQUENCY SPECTRAL INFORMATION
70 11 6 19203 MAN-MACHINE SIMULATION MODELS
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70 11 6 19205 A SYSTEM FOR THE RECORDING AND ANALYSIS OF INTERRESPONSE-TIME DATA USING AN AM TAPE RECORDER AND DIGITAL COMPUTERS
70 11 6 19206 COMPOSITE PROCESSING OF ELECTROENCEPHALOGRAPHIC DATA WITH THE AID OF A MULTIPLE ANALYZER AND AN ELECTRONIC COMPUTER (METHOD OF SEMIWAVE ANALYSIS)

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70 11 3 18602 EQUILIBRIUM BEHAVIOR OF POPULATION GENETIC MODELS WITH NON-RANDOM MATING, I. PRELIMINARIES AND SPECIAL MATING SYSTEMS
70 11 4 18801 NUMBERS AND HISTORY: THE DILEMMA OF MEASUREMENT
70 11 4 18935 SIMSOC: SIMULATED SOCIETY
70 11 5 19010 SIMULATION GAMES IN LEARNING
70 11 5 19061 SERIOUS GAMES
70 11 5 19128 GAME THEORY IN THE BEHAVIORAL SCIENCES
70 11 6 19203 MAN-MACHINE SIMULATION MODELS
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70 11 12 20251 COMPUTER ANALYSIS AND DISPLAY OF MOVEMENT PATTERNS.

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SOCIAL AND BEHAVIORAL SCIENCES - MISCELLANEOUS

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HUMANITIES - ART

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70 11 3 18609 COMPUTER-AIDED SCULPTURE
70 11 11 20097 THE COMPUTER IN THE HUMANITIES AND FINE ARTS.

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70 11 1 18319 THE ALGEBRA OF DERIVATIONS AND A SEMITHUE PARSER
70 11 2 18428 DESIGN OF COMPUTER PROGRAMS FOR MULTIVARIATE CLASSIFICATION IN CONTENT ANALYSIS
70 11 2 18429 A PROGRAM FOR THE SYNTACTIC ANALYSIS OF ENGLISH SENTENCES
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70 11 3 18637 SEMANTIC SPACE - A COMPUTER TECHNIQUE FOR MODELING WORD MEANINGS
70 11 3 18664 THE STUDY OF THE ENRICHMENT OF PHRASES, A MEANS OF OBTAINING THE ELEMENTS OF SUMMARIES AND ABSTRACTS
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0 11 3 18611 HISTORICAL INVESTIGATION AND AUTOMATIC DATA PROCESSING EQUIPMENT
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0 11 6 19316 DESIGN OF ARCHITECT'S PLANS BY MEANS OF COMPUTERS
0 11 11 20099 HISTORY AS LANGUAGE.

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70 11 3 18729 PROBABILITY MODELS: WITH BUSINESS APPLICATIONS
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70 11 2 18380 UNDERESTIMATES AND OVEREXPECTATIONS: CAN WE DESIGN COMPUTERS AND THEIR ATTENDANT PROGRAMS WITH A REASONABLE EXPECTATION THAT THEY WILL FUNCTION?
70 11 2 18443 SIMULATION AND WAR GAMES
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70 11 3 18672 PUBLIC URBAN LOCATOR SERVICE (PULSE): BACKGROUND AND CONFERENCE PROCEEDINGS
70 11 4 18820 ANALYSIS OF THE COMMUNICATIONS ASPECTS OF AN INQUIRY-RESPONSE SYSTEM
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70 11 3 18595 THE EXTENSION OF NETWORK ANALYSIS TO THE CO-ORDINATION OF DESIGN AND CONSTRUCTION
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70 11 4 18871 SOME RESULTS OF CONNECTING (AGGREGATING) NETWORKS IN BUILDING
70 11 4 18872 HOW TO IMPROVE PROJECT CONTROL
70 11 4 18937 THE TECHNOLOGICAL NETWORK: MACRO AND MICRO STRUCTURES
70 11 4 18945 THE STATUS OF GERT
70 11 5 19052 SYSTEM OF ANALYSIS AND ASSIGNMENT OF OPERATIONS ACCORDING TO CAPACITIES (SAAOC)
70 11 5 19073 AUTOMATION OF DATA COLLECTIONS
70 11 6 19167 COMPUTER DATA PROCESSING AND PROGRAMMING
70 11 6 19207 COMPUTER TECHNIQUES FOR ANALYZING THE MICROSTRUCTURE OF SERIAL-ACTION WORK IN INDUSTRY
70 11 6 19222 SCHEDULING IN INDUSTRY - II. NETWORK SCHEDULING
70 11 6 19223 THE INTERPRETATION OF LIMITED ENTRY DECISION TABLE FORMAT AND RELATIONSHIPS AMONG CONDITIONS
70 11 7 19340 ROBOT DATA SCREENING, AN AUTOMATIC SEARCH TECHNIQUE.
70 11 7 19372 A COMPUTER AIDED APPROACH TO EMPLOYMENT SERVICE PLACEMENT AND COUNSELING.
70 11 8 19509 DATA PROCESSING AND MANAGEMENT: ADAPTATION OF MANAGEMENT METHODS TO MODERN INFORMATION SYSTEMS.
70 11 8 19561 PROSIM: A PRODUCTION MANAGEMENT SIMULATION.
70 11 8 19562 MATERIALS MANAGEMENT.
70 11 9 19767 AN AUTOMATED CIRCULATION SYSTEM AND MASTER BOOK FILE FOR A MEDIUM-SIZED SCIENTIFIC LIBRARY.
70 11 9 19769 AUTOMATED SERIALS CHECK-IN AND BINDING PROCEDURES AT THE SAN FRANCISCO PUBLIC LIBRARY.
70 11 9 19771 EXPERIENCE TO DATE IN AUTOMATED ACQUISITIONS AT HONNOLD LIBRARY.
70 11 9 19835 LINEAR PROGRAMMING.
70 11 11 20035 DATA PROCESSING.
70 11 11 20059 RESPONSIBILITY AND THE DP SUPERVISOR.
70 11 11 20062 THE DP MANAGER AND THE CORPORATE ORGANIZATION.
70 11 11 20065 FILE MANAGEMENT SYSTEMS: A CURRENT SUMMARY.
70 11 11 20100 A CHINESE COMPUTER ALPHABET FOR AUTOMATIC MACHINE PROCESSING.
70 11 11 20146 RECOVERY PROCEDURES FOR DIRECT ACCESS COMMERCIAL SYSTEMS.
70 11 12 20232 RELATIVE COSTS OF COMPUTERIZED ERROR INSPECTION PLANS.

3.60 APPLICATIONS
ARTIFICIAL INTELLIGENCE - GENERAL

70 0 0 222 THE SCIENCES OF THE ARTIFICIAL
70 11 1 18222 THE SCIENCES OF THE ARTIFICIAL
70 11 1 18223 PARAMODULATION AND THEOREM-PROVING IN FIRST-ORDER THEORIES WITH EQUALITY
70 11 1 18224 THE ORGANIZATION OF INTERACTION IN COLLECTIVES OF AUTOMATA
70 11 1 18225 PLANNING AND GENERALISATION IN AN AUTOMATION ENVIRONMENT SYSTEM
70 11 1 18226 FREDDY IN TOYLAND
70 11 1 18227 SOME PHILOSOPHICAL PROBLEMS FROM THE STANDPOINT OF ARTIFICIAL INTELLIGENCE
70 11 2 18418 THE IMPLICATIONS OF DEVELOPMENTAL PSYCHOLOGY FOR ARTIFICIAL INTELLIGENCE
70 11 2 18431 THE NEW PHILOLOGY: AN OLD DISCIPLINE OR A NEW SCIENCE?
70 11 2 18445 CYBERNETICS
70 11 2 18446 A MOBILE AUTOMATION: AN APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES
70 11 3 18624 LIFE INSURANCE MODELS
70 11 3 18626 RISK THEORY MODELS
70 11 3 18630 THE DESIGN OF COMPUTER SIMULATION EXPERIMENTS
70 11 3 18631 COMPUTER QUESTION-ANSWERING SYSTEM: A REVIEW AND SOME AREAS FOR DEVELOPMENT
70 11 3 18632 SIMULATION TECHNIQUES
70 11 3 18633 MULTI-DIMENSIONAL VERIFICATION
70 11 4 18757 PROSPECTS OF COMPUTER SCIENCE
70 11 4 18785 ON DEFINING THE SIMULATION PROCESS
70 11 4 18821 THEOREM-PROVERS COMBINING MODEL ELIMINATION AND RESOLUTION
70 11 5 19053 NATURAL LANGUAGE QUESTION-ANSWERING SYSTEMS: 1969
70 11 5 19054 A MACHINE-ORIENTING LOGIC INCORPORATING THE EQUALITY RELATION
70 11 6 19163 PURPOSIVE SYSTEMS
70 11 6 19224 ADVANCES IN CYBERNETICS
70 11 6 19225 PROGRAMS WITH COMMON SENSE
70 11 6 19226 PROSPECTS FOR THE DEVELOPMENT OF THE PSYCHOCYBERNETICS OF INTELLIGENT BEHAVIOR
70 11 6 19227 THE NATURE OF PURPOSE
70 11 6 19252 FACILITATING THE MAN-MACHINE INTERFACE
70 11 7 19325 COMPUTERS AND ARTIFICIAL INTELLIGENCE.
70 11 8 19567 PATTERN RECOGNITION.
70 11 9 19760 PROBLEMS OF REPRESENTATION IN ARTIFICIAL INTELLIGENCE.
70 11 10 19900 MACHINE INTELLIGENCE 5.
70 11 10 19901 INTELLIGENT MACHINERY.
70 11 10 19903 AN HEURISTIC PROGRAM OF SELF- ORGANIZATION OF A COGNITIVE SYSTEM WITH ACTIVE STRATEGY OF LEARNING.
70 11 11 20120 SCURRAH, M. J. / WAGNER, D. A.
70 11 11 20122 ASSOCIATIVE MEMORY MODELS.
70 11 12 20283 PROC. OF THE INTERNATIONAL JOINT CONF. ON ARTIFICIAL INTELLIGENCE.
70 11 12 20285 INTELLIGENCE AND ARTIFICIAL INTELLIGENCE.
70 11 12 20298 ON THE DESIGN OF CONSCIOUS AUTOMATA.

3.61 APPLICATIONS
ARTIFICIAL INTELLIGENCE - INDUCTION AND HYPOTHESIS-FORMATION

70 11 8 19565 PLANNING BY MAN-MACHINE SYNERGISM: A CHARACTERIZATION OF PROCESSES AND ENVIRONMENT.
70 11 8 19577 PATTERN RECOGNITION AS AN INDUCTIVE PROCESS.
70 11 10 19874 REDISCOVERING SOME PROBLEMS OF ARTIFICIAL INTELLIGENCE IN THE CONTEXT OF ORGANIC CHEMISTRY.
70 11 12 20284 SEVERAL METHODS OF CONCEPT-FORMATION BY COMPUTER.

3.62 APPLICATIONS
ARTIFICIAL INTELLIGENCE - LEARNING AND ADAPTIVE SYSTEMS

70 11 8 19576 NONPARAMETRIC LEARNING AND PATTERN RECOGNITION USING A FINITE NUMBER OF STATES.
70 11 1 18228 LEARNING SYSTEM THEORY
70 11 1 18237 A CHESS-PLAYING PROGRAM
70 11 1 18238 ANALYSIS OF THE MACHINE CHESS GAME, J. SCOTT (WHITE), ICL-1900 VERSUS R. D. GREENBLATT, PDP-10
70 11 2 18542 A FORMULATION OF FUZZY AUTOMATA AND ITS APPLICATION AS A MODEL OF LEARNING SYSTEMS
70 11 3 18630 THE DESIGN OF COMPUTER SIMULATION EXPERIMENTS
70 11 3 18634 ON MODELLING THE ADAPTIVE CHARACTERISTICS OF HUMAN CONTROLLERS
70 11 4 18822 THE GAME OF 'LOTS.'
70 11 4 18823 LEARNING PATTERNS IN TERMS OF OTHER PATTERNS
70 11 4 18942 AN ALGORITHM FOR THE SOLUTION OF CONCAVE-CONVEX GAMES
70 11 6 19228 A METHOD FOR SOLVING ARBITRARY-WALL MAZES BY COMPUTER
70 11 6 19229 NUMERICAL SOLUTION OF A DISTRIBUTED IDENTIFICATION PROBLEM VIA A DIRECT METHOD
70 11 7 19365 THE NEUROPHYSIOLOGY OF PURPOSIVE BEHAVIOR.
70 11 7 19373 HARDWARE FOR PURPOSIVE SYSTEMS.
70 11 7 19375 CLASSIFY: A PROGRAM TO SOLVE GEOMETRIC CLASSIFICATION PROBLEMS.
70 11 7 19385 MAZE SEARCH: A PROGRAM THAT SOLVES N DIMENSIONAL MAZES.
70 11 7 19386 EXPERIMENTS WITH THE M&N TREE-SEARCHING PROGRAM.
70 11 7 19387 LANGUAGE BASED PROBLEM-SOLVING.
70 11 8 19565 PLANNING BY MAN-MACHINE SYNERGISM: A CHARACTERIZATION OF PROCESSES AND ENVIRONMENT.
70 11 9 19705 PROJECT IMPACT: COMPUTER-ADMINISTERED INSTRUCTION CONCEPTS AND INITIAL DEVELOPMENT.
70 11 9 19826 COMPLETENESS RESULTS FOR E-RESOLUTION.
70 11 10 19898 DECISION MAKING AND LEARNING: A SIMULATED MARKETING MANAGER.

3.63 APPLICATIONS
ARTIFICIAL INTELLIGENCE - PATTERN RECOGNITION

70 0 0 137 PICTURE PROCESSING AND PSYCHOPICTORICS.
70 0 0 210 OPTICAL DATA PROCESSING.
70 11 1 18228 LEARNING SYSTEM THEORY
70 11 1 18229 AN ON-LINE SYMBOLIC MATHEMATICS SYSTEM USING HAND-PRINTED TWO-DIMENSIONAL NOTATION
70 11 1 18230 PATTERN RECOGNITION PROBLEMS IN BUBBLE-CHAMBER PHYSICS
70 11 1 18231 RECOGNITION EXPERIMENTS WITH TYPED NUMERALS FROM ENVELOPES IN THE MAIL
70 11 1 18232 A VECTOR FIELD APPROACH TO CLUSTER ANALYSIS
70 11 1 18233 A METHOD OF DECISION MAKING IN PATTERN RECOGNITION
70 11 1 18234 DESIGN OF MULTICATEGORY PATTERN CLASSIFIERS WITH TWO-CATEGORY CLASSIFIER DESIGN PROCEDURES
70 11 1 18235 IMAGES FROM COMPUTERS AND MICROFILM PLOTTERS
70 11 1 18358 MAGNETIC CHARACTERS FOR DATA ENTRY
70 11 2 18414 DIAGNOSTIC COMPUTERS
70 11 2 18446 A MOBILE AUTOMATION: AN APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES
70 11 2 18447 OPTICAL CHARACTER RECOGNITION AND THE YEARS AHEAD
70 11 2 18448 PICTURE PROCESSING: SOME APPLICATIONS
70 11 2 18449 PICTURE ENHANCEMENT FOR THE MOON, MARS AND MAN
70 11 2 18472 EXPERIMENTS WITH A NEW MESSAGE FORMAT FOR DIGITAL ENCODING OF PICTORIAL INFORMATION
70 11 2 18542 A FORMULATION OF FUZZY AUTOMATA AND ITS APPLICATION AS A MODEL OF LEARNING SYSTEMS
70 11 2 18558 INFORMATION THEORY FOR SYSTEM ENGINEERS
70 11 3 18635 ENGINEERING PRINCIPLES OF PATTERN RECOGNITION
70 11 3 18750 PICTURE PROCESSING BY COMPUTER
70 11 4 18823 LEARNING PATTERNS IN TERMS OF OTHER PATTERNS
70 11 4 18824 A DYNAMIC PROGRAMMING APPROACH TO SEQUENTIAL PATTERN RECOGNITION
70 11 4 18825 COMPUTER RECOGNITION OF FIGURES THROUGH DECOMPOSITION
70 11 4 18826 AUTOMATIC INTERPRETATION AND CLASSIFICATION OF IMAGES
70 11 4 18827 A SYSTEM OF AUTOMATIC CHROMOSOME ANALYSIS
70 11 4 18828 IMAGE TRANSMISSION AND IMAGE PROCESSING IN RADIOLOGY
70 11 4 18829 PROBLEMS OF PATTERN RECOGNITION IN X-RAY CRYSTALLOGRAPHY
70 11 4 18830 OPTIMALITY CONSIDERATIONS IN PICTURE PROCESSING
70 11 4 18884 A GRAPH MANIPULATOR FOR ON-LINE NETWORK PICTURE PROCESSING
70 11 4 18919 KNOWING AND GUESSING: A QUANTITATIVE STUDY OF INFERENCE AND INFORMATION
70 11 5 19055 AUTOMATIC FEATURE EXTRACTION IN PATTERN RECOGNITION
70 11 5 19056 FIGURE EXTRACTION
70 11 5 19057 IMAGE PROCESSING: A REVIEW AND PROJECTION
70 11 5 19058 CONTINUOUS SKELETONS FROM DIGITIZED IMAGES
70 11 5 19059 EXPERIMENTS WITH THE N-TUPLE METHOD OF PATTERN RECOGNITION
70 11 5 19060 COMPUTER OPTIMIZATION OF RECOGNITION NETWORKS
70 11 6 19189 COMPUTER DISSECTION OF PERIPHERAL NERVE BUNDLE ACTIVITY
70 11 6 19193 EVALUATING MEMBRANE POTENTIAL AND SPIKE PATTERNS BY EXPERIMENTER-CONTROLLED COMPUTER DISPLAYS
70 11 6 19230 PATTERN RECOGNITION IN SPEAKER VERIFICATION
70 11 6 19231 VOICE RECOGNITION AND RESPONSE SYSTEMS
70 11 6 19232 CONNECTIVITY IN DIGITAL PICTURES
70 11 6 19233 A REVIEW OF RELEVANT PROBLEMS IN THE PROCESSING OF LINE-DRAWING DATA
70 11 6 19234 A MULTI-LEVEL SYSTEM OF ANALYSIS FOR MIXED-FONT AND HAND-BLOCKED PRINTED CHARACTER RECOGNITION
70 11 6 19235 HEXAGONAL PARALLEL PATTERN TRANSFORMATIONS
70 11 6 19318 DATA ACQUISITION - A BOTTLENECK?
70 11 7 19376 THRESHOLDED CONVOLUTION OPERATIONS.
70 11 7 19377 METHODOLOGIES OF PATTERN RECOGNITION.
70 11 7 19378 REMARKS ON TWO PROBLEMS CONNECTED WITH PATTERN RECOGNITION.
70 11 7 19379 RESEARCH ON PATTERN RECOGNITION IN FRANCE.
70 11 7 19380 IMPLICATIONS OF INTERACTIVE GRAPHIC COMPUTERS FOR PATTERN RECOGNITION METHODOLOGY.
70 11 7 19381 NONSUPERVISED LEARNING IN STATISTICAL PATTERN RECOGNITION.
70 11 7 19384 ON THE AUTOMATIC CLASSIFICATION OF FINGERPRINTS- SOME CONSIDERATIONS ON THE LINGUISTIC INTERPRETATION OF PICTURES.
70 11 8 19568 PATTERN RECOGNITION, THE CHALLENGE, ARE WE MEETING IT?
70 11 8 19569 LEARNING IN PATTERN RECOGNITION.
70 11 8 19571 GOAL-DIRECTED PATTERN RECOGNITION.
70 11 8 19573 RECOGNITION AND ACTION.

70 11 8 19574 SOME VIEWS ON PATTERN-RECOGNITION METHODOLOGY.
70 11 8 19578 INVARIANT RECOGNITION OF GEOMETRIC SHAPES.
70 11 8 19579 A UNIFIED APPROACH TO PATTERN ANALYSIS.
70 11 8 19580 RECOGNITION OF CONVEX BLOBS.
70 11 8 19582 THE THEORY AND APPLICATION OF ELECTRONIC MOIRE PATTERNS.
70 11 8 19583 MATHEMATICAL MODEL FOR PATTERN VERIFICATION
70 11 8 19584 POTENTIAL FUNCTIONS IN MATHEMATICAL PATTERN RECOGNITION.
70 11 8 19685 HAND-PRINTED INPUT FOR ON-LINE SYSTEMS.
70 11 9 19737 AUTOMATIC COMPUTER RECOGNITION AND ANALYSIS OF DENTAL X-RAY FILM.
70 11 9 19739 AN EXPERIMENTAL ANATOMY COMPUTER SYSTEM.
70 11 9 19755 REQUIRING A SEQUENCE OF DECISIONS.
70 11 9 19757 A TECHNIQUE FOR FEATURE EXTRACTION IN VISUAL PATTERN RECOGNITION.
70 11 9 19838 STATISTICAL ANALYSIS AS A TOOL TO MAKE PATTERNS EMERGE FROM DATA.
70 11 10 19873 A COMPUTER PROGRAM FOR GENERATING DIAGNOSTIC KEYS.
70 11 10 19903 AN HEURISTIC PROGRAM OF SELF- ORGANIZATION OF A COGNITIVE SYSTEM WITH ACTIVE STRATEGY OF LEARNING.
70 11 10 19904 ON THE FEASIBILITY OF VOICE INPUT TO AN ON-LINE COMPUTER PROCESSING SYSTEM.
70 11 10 19906 THE COMPUTATION OF CONNECTED REGIONS IN INTERACTIVE GRAPHICS.
70 11 10 20029 SELECTING THE BEST CHARACTER GENERATION TECHNIQUE.
70 11 10 20030 DESIGN CONSIDERATIONS FOR A MICROFILM OCR SCANNER.
70 11 10 20031 SCANNING TECHNIQUES FOR OCR.
70 11 11 20067 CONIC SECTIONS IN AUTOMATIC CHROMOSOME ANALYSIS.
70 11 11 20076 A PROGRAMMING SYSTEM FOR THE ON-LINE ANALYSIS OF BIOMEDICAL IMAGES.
70 11 11 20114 A LEARNING SCHEME FOR THE NEAREST NEIGHBOUR CLASSIFIER.
70 11 11 20116 SHAPE ANALYSIS BY USE OF WALSH FUNCTIONS.
70 11 11 20118 NORMALIZATION TECHNIQUES FOR HANDPRINTED NUMERALS.
70 11 12 20238 A METHODOLOGY FOR THE AUTOMATED PHOTO-IDENTIFICATION OF RURAL LAND USE TYPES.
70 11 12 20289 GEOMETRICAL PATTERN FEATURE EXTRACTION BY PROJECTION ON HAAR ORTHONORMAL BASIS.
70 11 12 20290 OPTIMIZING A VIDEO PREPROCESSOR FOR OCR.
70 11 12 20294 SOME EXPERIMENTS WITH COMPUTER SYNTHESIZED SPEECH.
70 11 12 20296 SOME ASPECTS OF THE RECOGNITION OF CONVEX POLYHEDRA FROM TWO PLANE PROJECTIONS. I.

3.64 APPLICATIONS
ARTIFICIAL INTELLIGENCE - PROBLEM-SOLVING

70 0 0 36 A PRIMER ON SIMULATION AND GAMING.
70 0 0 151 THE MANAGEMENT GAME--SIMULATED DECISION MAKING.
70 0 0 199 SIMULATION AND SOCIETY--AN EXPLORATION OF SCIENTIFIC GAMING.
70 11 1 18236 GPS: A CASE STUDY IN GENERALITY AND PROBLEM SOLVING
70 11 1 18237 A CHESS-PLAYING PROGRAM
70 11 1 18238 ANALYSIS OF THE MACHINE CHESS GAME, J. SCOTT (WHITE), ICL-1900 VERSUS R. D. GREENBLATT, PDP-10
70 11 1 18284 PROGRAM ANALYSIS - A PROBLEM IN MAN-COMPUTER COMMUNICATION
70 11 1 18338 GAME STRATEGY AND COLLUSION IN AN OLIGOPOLISTIC MARKET
70 11 2 18374 COMPUTER METHODS IN MATHEMATICS
70 11 2 18465 THEOREM PROVING AND INFORMATION RETRIEVAL
70 11 2 18490 A MATHEMATICAL PROBLEM SOLVING LANGUAGE AND ITS INTERPRETER
70 11 2 18529 COMPUTER GENERATION OF SERIES AND RATIONAL FUNCTION SOLUTIONS TO PARTIAL DIFFERENTIAL INITIAL VALUE PROBLEMS
70 11 2 18534 THEOREM-PROVING BY RESOLUTION AS A BASIS FOR QUESTION-ANSWERING SYSTEMS
70 11 3 18603 THE CZECHOSLOVAK EEG COMMISSION: AUTOCORRELATIVE ANALYSIS OF THE EEG AND OF A MODEL
70 11 3 18604 A DISASTER ENVIRONMENTAL SIMULATOR
70 11 3 18606 COMPUTER SCIENCE AND THE ENRICHMENT OF PSYCHOLOGICAL RESEARCH
70 11 3 18630 THE DESIGN OF COMPUTER SIMULATION EXPERIMENTS
70 11 3 18636 ADEPT - A HEURISTIC PROGRAM FOR PROVING THEOREMS OF GROUP THEORY
70 11 3 18637 SEMANTIC SPACE - A COMPUTER TECHNIQUE FOR MODELING WORD MEANINGS
70 11 4 18821 THEOREM-PROVERS COMBINING MODEL ELIMINATION AND RESOLUTION
70 11 4 18822 THE GAME OF 'LOTS.'
70 11 5 19061 SERIOUS GAMES
70 11 5 19062 LANGUAGE BASED PROBLEM-SOLVING
70 11 6 19188 INPUT-OUTPUT MODELS OF BIOLOGICAL SYSTEMS: FORMULATION AND APPLICABILITY
70 11 6 19209 CRITICAL PATH PLANNING
70 11 6 19213 THE EXECUTIVE STRATEGIST
70 11 6 19227 THE NATURE OF PURPOSE
70 11 6 19273 A METHOD FOR AUTOMATIC SOLUTION OF ALGEBRAIC EQUATIONS
70 11 7 19340 ROBOT DATA SCREENING, AN AUTOMATIC SEARCH TECHNIQUE.
70 11 7 19360 A SIMULATION MODEL FOR EVALUATING THE EFFECTIVENESS OF VARIOUS STOCK MARKET STRATEGIES.
70 11 7 19374 THE COMPUTER REPRESENTATION OF SIMPLY DESCRIBED SCENES.
70 11 7 19375 CLASSIFY: A PROGRAM TO SOLVE GEOMETRIC CLASSIFICATION PROBLEMS.
70 11 7 19474 AN EFFICIENT HEURISTIC PROCEDURE FOR PARTITIONING GRAPHS.
70 11 8 19565 PLANNING BY MAN-MACHINE SYNERGISM: A CHARACTERIZATION OF PROCESSES AND ENVIRONMENT.
70 11 8 19566 COMPETITIVE GOAL-SEEKING THROUGH EVOLUTIONARY PROGRAMING.
70 11 8 19585 MECHANIZATION OF TRIANGLE-CONSTRUCTIONS.
70 11 10 19898 DECISION MAKING AND LEARNING: A SIMULATED MARKETING MANAGER.
70 11 10 19903 AN HEURISTIC PROGRAM OF SELF- ORGANIZATION OF A COGNITIVE SYSTEM WITH ACTIVE STRATEGY OF LEARNING.
70 11 10 20013 THE AED APPROACH TO GENERALIZED COMPUTER-AIDED DESIGN.
70 11 11 20119 A PROGRAMME FOR THE CALCULATION OF CHARACTERS AND REPRESENTATIONS OF FINITE GROUPS.
70 11 11 20122 ASSOCIATIVE MEMORY MODELS.
70 11 12 20219 COMPUTERS AND PROBLEM SOLVING.
70 11 12 20297 TOWARD A PROGRAMMING LABORATORY.
70 11 12 20298 ON THE DESIGN OF CONSCIOUS AUTOMATA.

3.65 APPLICATIONS
ARTIFICIAL INTELLIGENCE - SIMULATION OF NATURAL SYSTEMS

70 0 0 105 SYSTEMS SIMULATION FOR REGIONAL ANALYSIS.
70 0 0 199 SIMULATION AND SOCIETY--AN EXPLORATION OF SCIENTIFIC GAMING.
70 11 1 18192 A SIMULATION MODEL FOR THE STUDY OF THE MOTION OF RANDOM-COIL POLYMER CHAINS
70 11 1 18201 ANALYSIS OF CONTROL-MECHANISM PERFORMANCE CRITERIA FOR AN ABOVE-KNEE LEG PROSTHESIS
70 11 1 18239 A NONLINEAR BIOMECHANICAL MODEL OF THE HUMAN IRIS
70 11 1 18248 ON MAN-COMPUTER INTERACTION: A MODEL AND SOME RELATED ISSUES
70 11 1 18343 STOCHASTIC ALLOCATION AND SYSTEM ANALYSIS
70 11 2 18390 THE SIMULATION OF PHOTOSYNTHESIS WITHIN PLANT CANOPIES
70 11 2 18417 THEORETICAL PROBLEMS OF BIOCYBERNETICS
70 11 2 18423 ELECTRONIC COMPUTER TECHNIQUES IN THE STUDY OF THE BRAIN
70 11 2 18450 SIMULATION OF NATURAL RESOURCE MANAGEMENT AND SOCIOLOGICAL SYSTEMS: AN APPLICATION OF INDUSTRIAL DYNAMICS

70 11 2 18451 THE INTERACTIVE CREATION, EXECUTION AND ANALYSIS OF BIOLOGICAL SIMULATION USING MIMIC ON A GRAPHIC TERMINAL
70 11 2 18452 ELECTROCHEMICALLY ACTIVE FIELD-TRAINABLE PATTERN RECOGNITION SYSTEMS
70 11 2 18569 THE BLIND LEAD THE BLIND
70 11 3 18607 STOCHASTIC MODELING OF HUMAN LEARNING BEHAVIOR
70 11 4 18773 COMPUTER SIMULATION OF A MASS SPECTROMETER
70 11 4 18878 THE SIMSCRIPT II PROGRAMMING LANGUAGE
70 11 5 18987 NEW RESEARCH TECHNIQUES FOR THE LIFE SCIENCES
70 11 5 19032 LEARNING AND MEMORY IN A DISCRIMINATION NET
70 11 6 19203 MAN-MACHINE SIMULATION MODELS
70 11 6 19226 PROSPECTS FOR THE DEVELOPMENT OF THE PSYCHOCYBERNETICS OF INTELLIGENT BEHAVIOR
70 11 6 19236 SOCIAL PROCESS MODELING: A COMPARISON OF A LIVE AND COMPUTERIZED SIMULATION
70 11 6 19285 ON RECURSIVELY DEFINED GEOMETRICAL OBJECTS AND PATTERNS OF GROWTH
70 11 8 19527 A FEEDBACK QUEUEING SYSTEM WITH BATCH ARRIVALS, BULK SERVICE, AND QUEUE-DEPENDENT SERVICE TIME.
70 11 8 19567 PATTERN RECOGNITION.
70 11 8 19588 THE SIMULATION OF DIFFICULT SYSTEMS.
70 11 8 19589 SURVEYING THE SIMULATION SCENE: ONGOING PUBLIC PROGRAMS PROJECTS.
70 11 9 19710 AUTOMATIC TECHNIQUES IN ENZYMES SIMULATION.
70 11 9 19711 SIMULATION OF THE PHENOMENON OF CONCEALED CONDUCTION.
70 11 9 19722 MATHEMATICAL PROGRAMMING IN ECONOMICS BY PHYSICAL ANALOGIES. PART I: THE ANALOGY BETWEEN ENGINEERING AND ECONOMICS.
70 11 9 19723 MATHEMATICAL PROGRAMMING IN ECONOMICS BY PHYSICAL ANALOGIES. PART II: THE ECONOMIC NETWORK CONCEPT.
70 11 9 19734 APPLICATIONS OF COMPUTER MODELING AND SIMULATION TO SCIENCE EDUCATION.
70 11 10 19903 AN HEURISTIC PROGRAM OF SELF- ORGANIZATION OF A COGNITIVE SYSTEM WITH ACTIVE STRATEGY OF LEARNING.
70 11 11 20069 CONSTRUCTION OF BIOCHEMICAL COMPUTER MODELS.
70 11 11 20073 KINETIC MODELING IN PHYSIOLOGY.
70 11 11 20094 COMPUTERS IN BEHAVIORAL SCIENCE: COMPUTER SIMULATION OF A MODEL OF NEUROTIC DEFENSE PROCESSES.
70 11 12 20235 THE SIMULATION PROGRAM SCERT AND SCERT AS A TOOL FOR PRODUCT PLANNING.
70 11 12 20292 GESTALT PATTERN RECOGNITION WITH ARRAYS OF PREDETERMINED NEURAL FUNCTIONS.
70 11 12 20293 EXCITATION OF VOCAL-TRACT SYNTHESIZERS.

3.66 APPLICATIONS
ARTIFICIAL INTELLIGENCE - THEORY OF HEURISTIC METHODS

70 11 1 18237 A CHESS-PLAYING PROGRAM
70 11 1 18238 ANALYSIS OF THE MACHINE CHESS GAME, J. SCOTT (WHITE), ICL-1900 VERSUS R. D. GREENBLATT, PDP-10
70 11 2 18451 THE INTERACTIVE CREATION, EXECUTION AND ANALYSIS OF BIOLOGICAL SIMULATION USING MIMIC ON A GRAPHIC TERMINAL
70 11 5 19063 A PROGRAM FOR THE SOLUTION OF A CLASS OF GEOMETRIC-ANALOGY INTELLIGENCE-TEST QUESTIONS
70 11 7 19365 THE NEUROPHYSIOLOGY OF PURPOSIVE BEHAVIOR.
70 11 7 19388 THE EVOLUTION OF PURPOSIVE BEHAVIOR.
70 11 7 19389 SIMULATION OF THINKING PROCESSES.
70 11 10 19899 COMPUTERS, CHESS, AND LONG-RANGE PLANNING.
70 11 12 20286 TOWARDS THE LOGICAL AND METAPHYSICAL FOUNDATIONS OF ORGANISMIC THEORY: A PREREQUISITE TO ARTIFICIAL INTELLIGENCE.

3.69 APPLICATIONS
ARTIFICIAL INTELLIGENCE - MISCELLANEOUS

70 0 0 19 QUANTITATIVE AND QUALITATIVE GAMES.
70 0 0 34 CONVERSATIONAL SYSTEMS. (LES SYSTEMES CONVERSATIONNELS,)
70 0 0 201 CONSCIOUSNESS: A PHILOSOPHIC STUDY OF MINDS AND MACHINES.
70 11 1 18240 THE ROBOT AND THE RABBIT - A PURSUIT PROBLEM
70 11 1 18317 RANDOM SETS IN SUBRECURSIVE HIERARCHIES
70 11 5 19156 A COMPREHENSIVE APPLICATIONS METHODOLOGY FOR SYMBOLIC COMPUTER GRAPHICS
70 11 6 19173 HIERARCHICAL STRUCTURES
70 11 6 19179 FACILITATING TECHNOLOGICAL INNOVATION IN SOCIETY
70 11 6 19226 PROSPECTS FOR THE DEVELOPMENT OF THE PSYCHOCYBERNETICS OF INTELLIGENT BEHAVIOR
70 11 6 19230 PATTERN RECOGNITION IN SPEAKER VERIFICATION
70 11 8 19618 THE USE OF A GRAPHIC LANGUAGE TO GENERATE GRAPHIC PROCEDURES.
70 11 9 19759 ON LIMIT PROPERTIES IN DIGITIZATION SCHEMES.
70 11 10 19887 IN THE YEAR 2001: SURGERY BY COMPUTER.
70 11 10 19905 LOOM-CONSTRAINED DESIGNS: AN ALGEBRAIC SOLUTION.
70 11 10 20003 INVESTIGATIONS OF GROUPS ON COMPUTERS.
70 11 11 20108 MANAGEMENT GAMING FOR DIDACTIC PURPOSES: A NEW LOOK.
70 11 11 20213 AN INTERACTIVE GENERAL PURPOSE COMPUTER ANIMATED TWO DIMENSIONAL MOVIE SYSTEM WITH REAL-TIME VIEWING CAPABILITIES, IMPLEMENTED ON A SMALL MACHINE.

3.70 APPLICATIONS
INFORMATION RETRIEVAL - GENERAL

70 0 0 29 SPECIAL LIBRARIES AND DOCUMENTATION CENTRES IN THE NETHERLANDS.
70 0 0 121 INFORMATION STORAGE AND RETRIEVAL SYSTEMS FOR INDIVIDUAL
70 0 0 123 IN THE SERVICE OF RESEARCH TECHNIQUES. (AU SERVICE DE LA RESEARCHERS,
RECHERCHE TECHNIQUE,)
70 11 1 18204 ON A COMPUTER PROGRAM THAT GENERATES AND QUERIES KINSHIP STRUCTURES
70 11 1 18241 THE SIGNIFICANCE OF THE 1968 IFIP CONGRESS FOR SCIENTIFIC AND TECHNICAL INFORMATION THEORY AND PRACTICE
70 11 1 18242 ONE PROBLEM OF QUERY ORIENTED FILING SCHEMES USING DISCRETE MATHEMATICS
70 11 1 18243 AN EXPERIMENTAL COMPUTER-STORED, AUGMENTED CATALOG OF
70 11 1 18243 A COMBINED DISPLAY FOR COMPUTER-GENERATED DATA AND SCANNED
70 11 1 18243 SYSTEM CHARACTERISTICS OF INTREX
PHOTOGRAPHIC IMAGES
PROFESSIONAL LITERATURE
70 11 2 18379 PUT CYBERNETICS TO THE SERVICE OF COMMUNISM: V
70 11 2 18427 MUSEUMS AND THE COMPUTER: AN APPRAISAL OF NEW POTENTIALS
70 11 2 18431 THE NEW PHILOLOGY: AN OLD DISCIPLINE OR A NEW SCIENCE?
70 11 2 18453 CONCEPTUAL DESIGN OF AN AUTOMATED NATIONAL LIBRARY SYSTEM
70 11 2 18454 PHASED TRANSITION FROM NON-MECHANIZED INFORMATION STORAGE AND RETRIEVAL TO ON-LINE COMPUTER OPERATION
70 11 2 18455 BEYOND SYMBIOSIS: THE HUMANIST, THE LIBRARIAN, AND THE COMPUTER
70 11 2 18456 THE COST ANALYSIS OF DOCUMENT SURROGATION: A LITERATURE REVIEW
70 11 2 18457 THE STUDY OF CONTEXT: AN OVERVIEW
70 11 2 18458 AN EXPERIMENTAL ENQUIRY INTO CONTEXT INFORMATION PROCESSING
70 11 2 18459 A COMPARATIVE STUDY OF MECHANIZED SEARCH LANGUAGES

0 11 2 18460 CONVERSION OF RETROSPECTIVE CATALOG RECORDS TO MACHINE-READABLE FORM - A STUDY OF THE FEASIBILITY OF A NATIONAL BIBLIOGRAPHIC SERVICE
0 11 2 18461 MECHANIZED INFORMATION STORAGE, RETRIEVAL, AND DISSEMINATION
0 11 2 18462 UTILITY OF AUTOMATIC CLASSIFICATION SYSTEMS FOR INFORMATION STORAGE AND RETRIEVAL
0 11 2 18463 MECHANIZED INFORMATION NETWORK FOR SMALL COUNTRIES
0 11 2 18464 INTERACTION OF ECONOMICS AND AUTOMATION IN A LARGE-SIZE RETRIEVAL SYSTEM
0 11 2 18468 THE COST OF A COMPUTERIZED INFORMATION RETRIEVAL SYSTEM
0 11 2 18469 A MECHANIZED SYSTEM OF INFORMATION RETRIEVAL IN THE FIELD OF INFORMATION SCIENCE
0 11 3 18638 ON RESEARCH LIBRARIES
0 11 3 18639 COMPUTERIZED LIBRARY CATALOGS: THEIR GROWTH, COST, AND UTILITY
0 11 3 18640 PROC. STANFORD CONFERENCE ON COLLABORATIVE LIBRARY SYSTEMS DEVELOPMENT
0 11 3 18641 THE UNIVERSITY OF CHICAGO LIBRARY AUTOMATION PROJECT: A SUMMARY
0 11 3 18642 AUTOMATION EFFORTS AT THE COLUMBIA UNIVERSITY LIBRARIES: A SUMMARY
0 11 3 18643 STANFORD UNIVERSITY LIBRARIES PROJECT BALLOTS: A SUMMARY
0 11 3 18644 NATIONAL COLLABORATION AND THE NATIONAL LIBRARIES TASK FORCE: A COURSE TOWARD COMPATIBILITY
0 11 3 18645 MANAGEMENT OF THE DESIGN AND DEVELOPMENT OF THE BIOMEDICAL COMMUNICATIONS NETWORK
0 11 3 18646 THE UNIVERSITY OF CHICAGO'S BOOK PROCESSING SYSTEM
0 11 3 18647 THE UNIVERSITY OF CHICAGO'S BOOK PROCESSING SYSTEM: PROGRAMMING DEVELOPMENT
0 11 3 18648 COMPUTER OPERATING SYSTEMS AND PROGRAMMING LANGUAGES: A CRITICAL REVIEW OF THEIR FEATURES AND LIMITATIONS FOR PROCESSING BIBLIOGRAPHIC TEXT
0 11 3 18649 DEVELOPING A CAMPUS INFORMATION RETRIEVAL SYSTEM
0 11 3 18650 ECONOMIC AND OPERATING REALITIES OF PRESENT DAY HARDWARE AND SOFTWARE IN LIBRARY APPLICATIONS
0 11 3 18651 DOCUMENTATION RETRIEVAL IN A UNIVERSITY COMPUTER CENTER ENVIRONMENT
0 11 3 18652 A GENERALIZED INDEX FORMATTING SYSTEM WITH PHOTOCOMPOSITION CAPABILITIES
0 11 3 18653 GENERALIZED SYSTEMS FOR STORING STRUCTURED VARIABLE LENGTH DATA AND RETRIEVING INFORMATION
0 11 3 18654 SOME EXPERIMENTS IN THE USE OF AUTOMATICALLY-OBTAINED TERM CLUSTERS FOR RETRIEVAL
0 11 3 18655 A SYSTEM TO MANAGE AN INFORMATION SYSTEM
0 11 3 18656 TEST OSIRIS (ON-LINE SEARCH INFORMATION RETRIEVAL INFORMATION STORAGE)
0 11 3 18657 A COMPARISON OF A KEYWORD FROM TITLE INDEX WITH A SINGLE ACCESS POINT PER DOCUMENT ALPHABETIC SUBJECT INDEX
0 11 3 18658 ALI: A DESIGN FOR A PERSONAL AUTOMATED LIBRARY
0 11 3 18659 REAL ENGLISH: A TRANSLATOR TO ENABLE NATURAL LANGUAGE MAN-MACHINE CONVERSATION
0 11 3 18660 STATISTICAL DATA COLLECTIONS IN UNIVERSITY RESEARCH LIBRARIES
0 11 4 18786 DIRECTED LIBRARY SEARCH TO MINIMIZE COST
0 11 4 18800 A SYSTEM FOR CLINICAL DATA MANAGEMENT
0 11 4 18814 INFORMATION SYSTEMS IN PERSPECTIVE
0 11 4 18831 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
0 11 4 18832 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
0 11 4 18833 PROC. OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCES
0 11 4 18834 FILE MANAGEMENT SYSTEMS; SESSION SUMMARY
0 11 4 18835 THE FEDERAL INFORMATION RESEARCH SCIENCE AND TECHNOLOGY NETWORK
0 11 4 18836 INFORMATION SCIENCE EDUCATION: CURRICULUM DEVELOPMENT AND EVALUATION
0 11 4 18837 EDUCATIONAL RESOURCES AND CURRICULUM DEVELOPMENT
0 11 4 18838 THE RELEVANCE OF INFORMATION SCIENCE TO LIBRARY-SCHOOL CURRICULA
0 11 4 18839 INFORMATION SCIENCE UNLIMITED? . . . A POSITION PAPER
0 11 4 18840 FOUNDATIONS OF A CONCEPT FOR AN EDUCATION PROGRAM IN INFORMATION SCIENCE
0 11 4 18841 AN ANLYSIS OF INFORMATION SCIENCE PROGRAMS
0 11 4 18842 EDUCATION IN INFORMATION SCIENCE
0 11 4 18843 INFORMATION SCIENCE: SOME QUESTIONS AND ANSWERS
0 11 4 18844 INFORMATION SCIENCE: TOWARD THE DEVELOPMENT OF A TRUE SCIENTIFIC DISCIPLINE
0 11 5 19034 A BIBLIOGRAPHICAL CENTER FOR LATIN AMERICAN LINGUISTICS
0 11 5 19064 A STOCHASTIC MODEL OF AN INFORMATION CENTER
0 11 5 19065 DIRECT SELECTION OF KEYWORDS FOR THE KWIC INDEX
0 11 5 19066 A NETWORK SYSTEM FOR LANGUAGE INFORMATION: CURRENT CONDITIONS AND LONG-RANGE PROSPECTS
0 11 5 19067 THE ENGINEER: HIS WORK AND NEEDS FOR INFORMATION
0 11 5 19068 NOTES ON ENTROPY MINIMIZATION IN INFORMATION RETRIEVAL
0 11 5 19069 COMMUNICATION VERSUS INFORMATION
0 11 6 19222 SCHEDULING IN INDUSTRY - II. NETWORK SCHEDULING
0 11 6 19237 HOW TO MANAGE YOUR INFORMATION
0 11 6 19238 COMPUTER APPLICATIONS IN THE LIBRARY OF CONGRESS SCIENCE AND TECHNOLOGY DIVISION
0 11 6 19239 SDATI INFORMATION STUDIES - WHAT RESULTS
0 11 6 19240 STORAGE REQUIREMENTS FOR INFORMATION HANDLING CENTERS
0 11 6 19241 DESIGN CRITERIA FOR A MULTI-INPUT DATA BASE FOR THE NATIONAL AGRICULTURE LIBRARY
0 11 6 19242 AN ANALYTICAL MODEL OF A LIBRARY NETWORK
0 11 6 19243 PROC. OF THE 1968 CLINIC ON LIBRARY APPLICATIONS OF DATA PROCESSING
0 11 6 19244 LIBRARY INFORMATION SYSTEM TIME-SHARING ON A LARGE, GENERAL-PURPOSE COMPUTER
0 11 6 19245 A LOCAL MARC PROJECT: THE GEORGIA TECH LIBRARY
0 11 6 19246 THE UNIVERSITY LIBRARY AND INFORMATION CENTER: A NEW DIMENSION
0 11 6 19247 LEGAL AND POLICY IMPEDIMENTS TO FEDERAL TECHNICAL INFORMATION TRANSFER
0 11 6 19257 DATA INFORMATION SYSTEM AT THE NATIONAL SPACE SCIENCE DATA CENTER
0 11 7 19348 INTERNATIONAL NUCLEAR INFORMATION SYSTEM.
0 11 7 19391 ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY, VOL. 4.
0 11 7 19394 EVALUATION OF A KWIC INDEX FOR LIBRARY LITERATURE.
0 11 7 19395 AN AUTOMATED CURRENT-AWARENESS SERVICE FOR PUBLIC LIBRARIES.
0 11 7 19396 A STEP TOWARDS LIBRARY AUTOMATION.
0 11 7 19399 DOCUMENT DISSEMINATION.
0 11 7 19400 INFORMATION AND AUTOMATIC DOCUMENTATION, CURRENT STATE AND FUTURE PROSPECTS.
0 11 7 19403 PREVENTING FAILURE IN LIBRARY AUTOMATION.
0 11 7 19406 SATCOM IN REVIEW.
0 11 8 19591 ABSTRACTING AND INDEXING SERVICES IN SCIENCE AND TECHNOLOGY.
0 11 8 19593 BIBLIOS-A MODULAR SYSTEM FOR LIBRARY AUTOMATION.
0 11 8 19595 THE FINAL REPORT OF THE COMPARATIVE SYSTEMS LABORATORY: A REVIEW.
0 11 9 19717 MAPPING JERUSALEM BY COMPUTER.
0 11 9 19738 NINDS NEUROLOGICAL INFORMATION NETWORK.
0 11 9 19761 SCIENTIFIC AND TECHNICAL COMMUNICATION-A PRESSING NATIONAL PROBLEM AND RECOMMENDATIONS FOR ITS SOLUTION.
0 11 9 19762 NONCONVENTIONAL SCIENTIFIC AND TECHNICAL INFORMATION SYSTEMS IN CURRENT USE IN CANADA.
0 11 9 19763 INFORMATION NETWORKS.

3.70 APPLICATIONS - INFORMATION RETRIEVAL

0 11 9 19765 OPINION PAPER: A NEW, GENERALIZED MODEL FOR INFORMATION TRANSFER-A SYSTEMS APPROACH.
0 11 9 19767 AN AUTOMATED CIRCULATION SYSTEM AND MASTER BOOK FILE FOR A MEDIUM-SIZED SCIENTIFIC LIBRARY.
0 11 9 19768 COMPUTER SUPPORT OF THE RESEARCHER'S OWN DOCUMENTATION.
0 11 9 19769 AUTOMATED SERIALS CHECK-IN AND BINDING PROCEDURES AT THE SAN FRANCISCO PUBLIC LIBRARY.
0 11 10 19871 HARDWARE ASPECTS OF SECURE COMPUTING.
0 11 10 19888 THE TELEPHONE AS A COMPUTER INPUT-OUTPUT TERMINAL FOR MEDICAL INFORMATION.
0 11 10 19895 COMPUTERIZED MANAGEMENT INFORMATION SYSTEMS.
0 11 10 19917 PERFORMANCE AND COST OF 'FREE-TEXT' SEARCH SYSTEMS.
0 11 10 19934 THE DATABASIC LANGUAGE-A DATA PROCESSING LANGUAGE FOR NON-PROFESSIONAL PROGRAMMERS.
0 11 11 20092 DRUG EFFECT PREDICTION BY COMPUTER.
0 11 11 20098 A PARSER FOR A RESTRICTED ARBITRARY PHRASE STRUCTURE GRAMMAR.
0 11 11 20109 MANAGEMENT INFORMATION RETRIEVAL.
0 11 11 20125 ISIS: INQUIRY SERVICING INFORMATION SYSTEM.
0 11 11 20128 THE RECON PILOT PROJECT: A PROGRESS REPORT.
0 11 11 20129 ALL-AUTOMATIC PROCESSING FOR A LARGE LIBRARY.
0 11 12 20253 DATA COLLECTION AND DISSEMINATION IN MUSEUMS: A WORKSHOP REPORT.
0 11 12 20274 INFORMATION NETWORKS OF COMPUTERS.
0 11 12 20275 THE NEW ROLE OF MANAGEMENT INFORMATION SYSTEMS.

3.71 APPLICATIONS
INFORMATION RETRIEVAL - CONTENT ANALYSIS

0 0 0 113 CONTENT ANALYSIS FOR THE SOCIAL SCIENCES AND HUMANITIES.
1 1 18204 ON A COMPUTER PROGRAM THAT GENERATES AND QUERIES KINSHIP STRUCTURES
1 1 18232 A VECTOR FIELD APPROACH TO CLUSTER ANALYSIS
1 2 18391 INTERPRETATION OF ORGANIC CHEMICAL FORMULAS BY COMPUTER
1 2 18428 DESIGN OF COMPUTER PROGRAMS FOR MULTIVARIATE CLASSIFICATION IN CONTENT ANALYSIS
1 2 18457 THE STUDY OF CONTEXT: AN OVERVIEW
1 2 18458 AN EXPERIMENTAL ENQUIRY INTO CONTEXT INFORMATION PROCESSING
1 2 18465 THEOREM PROVING AND INFORMATION RETRIEVAL
1 2 18466 AUTOMATIC SUBJECT RECOGNITION IN SCIENTIFIC PAPERS: AN EMPIRICAL STUDY
1 2 18467 SEMANTIC CLUSTERING OF INDEX TERMS
1 3 18661 A NEW CLASS OF ASSOCIATION FACTORS
1 3 18662 A VECTOR CLUSTERING TECHNIQUE
1 3 18663 COMPUTER CLASSIFICATION OF DOCUMENTS
1 3 18664 THE STUDY OF THE ENRICHMENT OF PHRASES, A MEANS OF OBTAINING THE ELEMENTS OF SUMMARIES AND ABSTRACTS
1 4 18845 RESEARCH ON AUTOMATIC INDEXING OF SCIENTIFIC DOCUMENTS
1 4 18846 AN ELEMENTARY GENERAL SYNTAX FOR RETRIEVAL LANGUAGES
1 5 19065 DIRECT SELECTION OF KEYWORDS FOR THE KWIC INDEX
1 6 19208 AN AUTOMATED RECOGNITION GRAMMAR FOR ENGLISH
1 6 19246 THE UNIVERSITY LIBRARY AND INFORMATION CENTER: A NEW DIMENSION
1 7 19390 A DEDUCTIVE QUESTION ANSWERER FOR NATURAL LANGUAGE INFERENCE.
1 7 19407 THESAURUS CONTROL- THE SELECTION, GROUPING, AND CROSS-REFERENCING OF TERMS FOR INCLUSION IN A COORDINATE INDEX WORD LIST.
1 10 19909 DOCUMENT RETRIEVAL.
1 10 19913 CONTENT ANALYSIS, SPECIFICATION, AND CONTROL.
1 11 20130 DERIVING TERM RELATIONS FOR A CORPUS BY GRAPH THEORETICAL CLUSTERS.

3.72 APPLICATIONS
INFORMATION RETRIEVAL - EVALUATION OF SYSTEMS

1 1 18189 NUCLEAR REACTOR STABILITY ANALYSIS BY S-360 CSMP
1 1 18244 RANDOM ACCESS FILE ORGANIZATION FOR INDIRECTLY ADDRESSED RECORDS
1 2 18503 ANALYSIS AND OPTIMIZATION OF DISK STORAGE DEVICES FOR TIME-SHARING SYSTEMS
1 3 18640 PROC. STANFORD CONFERENCE ON COLLABORATIVE LIBRARY SYSTEMS DEVELOPMENT
1 3 18657 A COMPARISON OF A KEYWORD FROM TITLE INDEX WITH A SINGLE ACCESS POINT PER DOCUMENT ALPHABETIC SUBJECT INDEX
1 3 18685 SOME TECHNIQUES AND TRADE-OFFS AFFECTING LARGE DATA BASE RETRIEVAL TIMES
1 4 18831 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
1 4 18832 THEORETICAL ANALYSIS AND INFORMATION SYSTEMS
1 4 18847 A SURVEY OF FILE ON-LINE RETRIEVAL SYSTEMS
1 4 18848 FILE ORGANIZATION AND SEARCH STRATEGY USING UDC IN MECHANIZED REFERENCE RETRIEVAL SYSTEMS
1 4 18849 AN INFORMATION RETRIEVAL SYSTEM BASED ON SUPERIMPOSED CODING
1 4 18850 MAP-INDEXED MICROFICHE OF TEKTRONIX, INC.
1 4 18851 AN APPROACH TO THE DESIGN OF COMPUTER-ONTO-MICROFILM (COM)
1 4 18852 THE HUMAN-READABLE MACHINE-READABLE (HRMR) MASS MEMORY AS THE FILE PROCESSOR FOR A NETWORK OF DOCUMENTATION-ANALYSIS CENTERS
1 4 18853 1,250,000 PAGES OF BIOLOGICAL INFORMATION TO MICROSTORAGE FOR RETRIEVAL IN A PHARMACEUTICAL INFORMATION SYSTEM
1 5 19065 DIRECT SELECTION OF KEYWORDS FOR THE KWIC INDEX
1 5 19070 AN INFORMATION CENTER USER STUDY
1 5 19071 COMMUNICATION THEORY AND THE EVALUATION OF INFORMATION RETRIEVAL SYSTEMS
1 6 19247 LEGAL AND POLICY IMPEDIMENTS TO FEDERAL TECHNICAL INFORMATION TRANSFER
1 6 19248 USER CONTROLLED FILE ORGANIZATION
1 6 19290 ALTERATIONS OF DIRECTED NETWORKS AND UPDATING THE LENGTHS OF SHORTEST PATHS FROM A FIXED VERTEX TO ALL OTHER VERTICES
1 7 19398 DESIGN AND EVALUATION OF INFORMATION SYSTEMS.
1 7 19402 SURVEY OF IMPORTANT DEVELOPMENTS IN THE INFORMATION STORAGE AND RETRIEVAL FIELD.
1 7 19409 COMPARING INDEXING EFFICIENCY, EFFECTIVENESS, AND CONSISTENCY WITH OR WITHOUT THE USE OF ROLES.
1 7 19410 DOCUMENT REPRESENTATION AND INDEXER CONSISTENCY.
1 7 19411 COMPARATIVE EFFECTS OF TITLES, ABSTRACTS AND FULL TEXTS ON RELEVANCE JUDGEMENTS.
1 7 19412 KEY WORD IN CONTEXT INDEX AND BIBLIOGRAPHY ON COMPUTER SYSTEMS EVALUATION TECHNIQUES.
1 7 19414 FACTORS AFFECTING INDEXING PERFORMANCE.
1 7 19418 INDIANA UNIVERSITY REGIONAL CAMPUS LIBRARIES: TOWARD A SYSTEM OF ACADEMIC LIBRARIES.
1 8 19605 RESPONSE TIME IN A TOTAL AIRLINES COMPUTER SYSTEM.
1 9 19764 LET THE COMPUTER SELECT YOUR READING LIST.
1 9 19796 REMOTE TERMINAL CHARACTER STREAM PROCESSING IN MULTICS.
1 10 19909 DOCUMENT RETRIEVAL.
1 11 20104 MAKING A CONCEPT A REALITY.
1 11 20126 COMPUTER USE IN INFORMATION AND DATA HANDLING: AN APPRAISAL OF ITS ECONOMIC ASPECTS.
1 11 20151 A STUDY OF RESOURCE UTILIZATION AND PERFORMANCE EVALUATION OF LARGE-SCALE COMPUTER SYSTEMS.

3.72 APPLICATIONS - INFORMATION RETRIEVAL

3.73 APPLICATIONS
INFORMATION RETRIEVAL - FILE MAINTENANCE

70 11 1 18243 SYSTEM CHARACTERISTICS OF INTREX
70 11 1 18244 RANDOM ACCESS FILE ORGANIZATION FOR INDIRECTLY ADDRESSED RECORDS
70 11 1 18245 ASSOCIATIVE MEMORY INVESTIGATIONS: SUBSTRUCTURING SEARCHING AND DATA ORGANIZATIONS
70 11 3 18640 PROC. STANFORD CONFERENCE ON COLLABORATIVE LIBRARY SYSTEMS DEVELOPMENT
70 11 3 18641 THE UNIVERSITY OF CHICAGO LIBRARY AUTOMATION PROJECT: A SUMMARY
70 11 3 18643 STANFORD UNIVERSITY LIBRARIES PROJECT BALLOTS: A SUMMARY
70 11 3 18649 DEVELOPING A CAMPUS INFORMATION RETRIEVAL SYSTEM
70 11 3 18651 DOCUMENTATION RETRIEVAL IN A UNIVERSITY COMPUTER CENTER ENVIRONMENT
70 11 3 18652 A GENERALIZED INDEX FORMATTING SYSTEM WITH PHOTOCOMPOSITION CAPABILITIES
70 11 3 18655 A SYSTEM TO MANAGE AN INFORMATION SYSTEM
70 11 3 18657 A COMPARISON OF A KEYWORD FROM TITLE INDEX WITH A SINGLE ACCESS POINT PER DOCUMENT ALPHABETIC SUBJECT INDEX
70 11 3 18665 MECHANIZING A BIBLIOGRAPHIC DATA BANK, A PILOT PROJECT FOR THE PUBLIC LIBRARIES OF METROPOLITAN TORONTO, CANADA
70 11 3 18667 THE DECOMPOSITION OF VOCABULARY HIERARCHIES
70 11 4 18834 FILE MANAGEMENT SYSTEMS: SESSION SUMMARY
70 11 4 18854 SEARCH STRATEGY AND FILE ORGANIZATION IN COMPUTERIZED INFORMATION RETRIEVAL SYSTEMS WITH MASS MEMORY
70 11 5 19033 THE INTEGRATED BIBLIOGRAPHY PILOT STUDY
70 11 5 19039 MARK IV FILE MANAGEMENT SYSTEM: USER'S GUIDE
70 11 5 19091 SECURITY CONTROLS IN THE ADEPT-50 TIME-SHARING SYSTEM
70 11 6 19215 LIBRARY SERIALS CONTROL USING A GENERAL-PURPOSE DATA MANAGEMENT SYSTEM
70 11 6 19238 COMPUTER APPLICATIONS IN THE LIBRARY OF CONGRESS SCIENCE AND TECHNOLOGY DIVISION
70 11 6 19248 USER CONTROLLED FILE ORGANIZATION
70 11 7 19393 A FORMAL SYSTEM FOR INFORMATION RETRIEVAL FROM FILES.
70 11 7 19415 A SIMPLE-MINDED DOCUMENTATION SYSTEM.
70 11 8 19594 A REGIONAL NETWORK-OHIO COLLEGE LIBRARY CENTER.
70 11 8 19629 CREATION AND CONTROL OF INTERNAL DATA BASES UNDER A FORTRAN PROGRAMMING ENVIRONMENT.
70 11 9 19702 A ' LINK' SYSTEM FOR ASSURING CONFIDENTIALITY OF RESEARCH DATA IN LONGITUDINAL STUDIES.
70 11 9 19748 BIBLIOS-A MODULAR APPROACH TO TOTAL LIBRARY ADP.
70 11 9 19766 A DATA STRUCTURE FOR INFORMATION RETRIEVAL.
70 11 9 19767 AN AUTOMATED CIRCULATION SYSTEM AND MASTER BOOK FILE FOR A MEDIUM-SIZED SCIENTIFIC LIBRARY.
70 11 9 19796 REMOTE TERMINAL CHARACTER STREAM PROCESSING IN MULTICS.
70 11 11 20146 RECOVERY PROCEDURES FOR DIRECT ACCESS COMMERCIAL SYSTEMS.

3.74 APPLICATIONS
INFORMATION RETRIEVAL - SEARCHING

70 11 1 18243 SYSTEM CHARACTERISTICS OF INTREX
70 11 1 18245 ASSOCIATIVE MEMORY INVESTIGATIONS: SUBSTRUCTURING SEARCHING AND DATA ORGANIZATIONS
70 11 1 18246 A NOTE ON DICTIONARY SEARCHING
70 11 2 18459 A COMPARATIVE STUDY OF MECHANIZED SEARCH LANGUAGES
70 11 2 18465 THEOREM PROVING AND INFORMATION RETRIEVAL
70 11 2 18467 SEMANTIC CLUSTERING OF INDEX TERMS
70 11 2 18468 THE COST OF A COMPUTERIZED INFORMATION RETRIEVAL SYSTEM
70 11 2 18469 A MECHANIZED SYSTEM OF INFORMATION RETRIEVAL IN THE FIELD OF INFORMATION SCIENCE
70 11 3 18646 THE UNIVERSITY OF CHICAGO'S BOOK PROCESSING SYSTEM
70 11 3 18651 DOCUMENTATION RETRIEVAL IN A UNIVERSITY COMPUTER CENTER ENVIRONMENT
70 11 3 18657 A COMPARISON OF A KEYWORD FROM TITLE INDEX WITH A SINGLE ACCESS POINT PER DOCUMENT ALPHABETIC SUBJECT INDEX
70 11 3 18666 SOME INDEPENDENT AGREEMENTS AND RESOLVED DISAGREEMENTS ABOUT ANSWER-PROVIDING DOCUMENTS
70 11 3 18685 SOME TECHNIQUES AND TRADE-OFFS AFFECTING LARGE DATA BASE RETRIEVAL TIMES
70 11 4 18855 CHEMICAL TITLES - A COMPUTER INFORMATION RETRIEVAL DATA SYSTEM
70 11 4 18856 SEARCH STRATEGY AND THE OPTIMIZATION OF RETRIEVAL EFFECTIVENESS
70 11 5 18992 CHEMICAL STANDARDS - AND THEIR RETRIEVAL
70 11 5 19039 MARK IV FILE MANAGEMENT SYSTEM: USER'S GUIDE
70 11 5 19042 GENERAL PURPOSE SYSTEMS: THE MARK IV FILE MANAGEMENT SYSTEM
70 11 5 19053 NATURAL LANGUAGE QUESTION-ANSWERING SYSTEMS: 1969
70 11 5 19072 LITERATURE SEARCHES FOR THESES BY COMPUTER - RESULTS OF THE FIRST TWO YEARS OF THE PROGRAM
70 11 6 19244 LIBRARY INFORMATION SYSTEM TIME-SHARING ON A LARGE, GENERAL-PURPOSE COMPUTER
70 11 6 19249 THE QUADRATIC QUOTIENT METHOD: A HASH CODE ELIMINATING SECONDARY CLUSTERING
70 11 7 19393 A FORMAL SYSTEM FOR INFORMATION RETRIEVAL FROM FILES.
70 11 7 19401 THE RAW MATERIALS OF RETRIEVAL.
70 11 7 19416 A THREADED-FILE RETRIEVAL SYSTEM.
70 11 8 19597 PERFORMANCE OF KILGOURS TRUNCATION ALGORITHM WHEN APPLIED TO BIBLIOGRAPHIC RETRIEVAL FROM A LIBRARY CATALOG.
70 11 9 19735 COMPUTERS AND STATUTE LAW.
70 11 10 19909 DOCUMENT RETRIEVAL.
70 11 10 19914 SPIRAL (SANDIA'S PROGRAM FOR INFORMATION RETRIEVAL AND LISTING).
70 11 10 19915 INFLUENCE OF FILE ACTIVITY, FILE SIZE, AND PROBABILITY OF SUCCESSFUL RETRIEVAL ON EFFICIENCY OF FILE STRUCTURES.
70 11 11 20126 COMPUTER USE IN INFORMATION AND DATA HANDLING: AN APPRAISAL OF ITS ECONOMIC ASPECTS.
70 11 11 20127 A COMPUTER BASED RETRIEVAL SYSTEM USING A REACTIVE THESAURUS.
70 11 11 20131 ORTHOGRAPHIC ERROR PATTERNS OF AUTHOR NAMES IN CATALOG SEARCHES.

3.75 APPLICATIONS
INFORMATION RETRIEVAL - VOCABULARY

70 11 3 18667 THE DECOMPOSITION OF VOCABULARY HIERARCHIES
70 11 5 19065 DIRECT SELECTION OF KEYWORDS FOR THE KWIC INDEX
70 11 10 19915 INFLUENCE OF FILE ACTIVITY, FILE SIZE, AND PROBABILITY OF SUCCESSFUL RETRIEVAL ON EFFICIENCY OF FILE STRUCTURES.
70 11 11 20127 A COMPUTER BASED RETRIEVAL SYSTEM USING A REACTIVE THESAURUS.
70 11 11 20136 SPACE-TIME TRADE-OFFS IN HASH CODING WITH ALLOWABLE ERRORS.

3.79 APPLICATIONS
INFORMATION RETRIEVAL - MISCELLANEOUS

70 0 0 180 LIBRARY EFFECTIVENESS: A SYSTEMS APPROACH
70 11 1 18169 COMPUTER ASSISTED INSTRUCTION AS AN INFORMATION RETRIEVAL PUBLIC UTILITY
70 11 1 18247 AUTONOTE: A PERSONAL INFORMATION STORAGE AND RETRIEVAL SYSTEM
70 11 2 18440 THE COMPREHENSIVE UNIFIED LAND DATA SYSTEM

3.79 APPLICATIONS - INFORMATION RETRIEVAL

70 11 2 18468 THE COST OF A COMPUTERIZED INFORMATION RETRIEVAL SYSTEM
70 11 2 18469 A MECHANIZED SYSTEM OF INFORMATION RETRIEVAL IN THE FIELD OF INFORMATION SCIENCE
70 11 3 18656 TEST OSIRIS (ON-LINE SEARCH INFORMATION RETRIEVAL INFORMATION STORAGE)
70 11 3 18665 MECHANIZING A BIBLIOGRAPHIC DATA BANK, A PILOT PROJECT FOR THE PUBLIC LIBRARIES OF METROPOLITAN TORONTO, CANADA
70 11 3 18668 AN ANALYTICAL STUDY OF LIBRARY BOOK DUPLICATION AND AVAILABILITY
70 11 3 18669 DESIGN OF AN IMAGE-ORIENTED INFORMATION RETRIEVAL SYSTEM
70 11 3 18670 UDC IN MECHANIZED INDEXING AND INFORMATION RETRIEVAL
70 11 3 18671 SOME PROCESSES OF ORGANIZATION OF INFORMATION AND CONTROL SYSTEMS
70 11 3 18673 A COMMUNICATIONS CONTROL SYSTEM
70 11 4 18765 FATE OF PAPERS SUBMITTED TO THE 1969 AUSTRALIAN COMPUTER CONFERENCE
70 11 4 18851 AN APPROACH TO THE DESIGN OF COMPUTER-ONTO-MICROFILM (COM)
70 11 4 18857 A RULY CODE FOR SERIALS
70 11 4 18858 MICRO-PUBLISHING AT THE WALL STREET JOURNAL
70 11 4 18859 STUDENT READING CHARACTERISTICS: COMPARING SKILL-LEVELS DEMONSTRATED ON HARDCOPY AND MICROFORM PRESENTATIONS
70 11 4 18860 GENERAL ATTITUDES OF PARTICIPANTS IN AN EDUCATIONAL INSTITUTE ON INFORMATION RETRIEVAL
70 11 4 18861 ACQUISITION OF LIBRARY MATERIALS: A QUANTITATIVE APPROACH
70 11 5 19070 AN INFORMATION CENTER USER STUDY
70 11 5 19073 AUTOMATION OF DATA COLLECTIONS
70 11 5 19074 COMPACTION OF NAMES BY X-GRAMS
70 11 5 19086 STRUCTURE AND ORGANIZATION OF VERY LARGE DATA BASES
70 11 6 19248 USER CONTROLLED FILE ORGANIZATION
70 11 6 19250 GENESIS OF A SERIALS LIST
70 11 7 19374 THE COMPUTER REPRESENTATION OF SIMPLY DESCRIBED SCENES.
70 11 7 19413 SURVEY OF CURRENT SYSTEMS FOR SELECTIVE DISSEMINATION OF INFORMATION (SDI).
70 11 7 19436 SPELLING CORRECTION ON SYSTEMS PROGRAMS.
70 11 8 19598 GENERATION ENCODING OF THE PROJECT INTREX AUGMENTED CATALOG DATA BASE.
70 11 8 19599 PROFESSIONAL ASPECTS OF INFORMATION SCIENCE AND TECHNOLOGY.
70 11 10 19916 APPROACHES TO SEARCHING AND RETRIEVAL AT A DATA ANALYSIS CENTER.
70 11 11 20113 NATURAL LANGUAGE INQUIRY TO AN OPEN-ENDED DATA LIBRARY.
70 11 11 20123 TOWARD UNIFORM DOCUMENTATION-PHYSBE AND 1130 CSMP.
70 11 11 20132 COMPARISON OF LC PROOFSLIP AND MARC TAPE ARRIVAL DATES AT THE UNIVERSITY OF CHICAGO LIBRARY.

3.80 APPLICATIONS
REAL TIME SYSTEMS - GENERAL

70 0 0 31 DISTRIBUTED CONTROL SYSTEMS.
70 0 0 32 APPLIED OPTIMAL CONTROL: OPTIMIZATION, ESTIMATION, AND CONTROL.
70 0 0 58 ESTIMATION AND CONTROL WITH QUANTIZED MEASUREMENTS.
70 0 0 163 CONTROL ENGINEERING
70 0 0 170 THE ORIGINS OF FEEDBACK CONTROL.
70 0 0 187 THE ENGINEERING USES OF HOLOGRAPHY.
70 0 0 195 GUIDE TO THE DESIGN OF REAL-TIME SYSTEMS.
70 0 0 239 PROGRESS IN DIRECT DIGITAL CONTROL
70 11 1 18161 INTRODUCTION TO FEEDBACK SYSTEMS
70 11 1 18180 TIME-SHARING AND BATCH-PROCESSING: AN EXPERIMENTAL COMPARISON OF THEIR VALUES IN A PROBLEM-SOLVING SITUATION
70 11 1 18248 ON MAN-COMPUTER INTERACTION: A MODEL AND SOME RELATED ISSUES
70 11 1 18279 A MODULAR COMPUTER SHARING SYSTEM
70 11 1 18282 REAL-TIME DISPLAY OF COMPUTER GENERATED HALF-TONE PERSPECTIVE PICTURES
70 11 1 18283 ON CALCULATING THE ILLUSION OF REALITY
70 11 1 18295 LINEAR MODULAR SYSTEMS
70 11 1 18296 LINEAR TIME-INVARIANT SYSTEMS
70 11 1 18333 SYNTHESIS OF OPEN-LOOP OPTIMAL CONTROL WITH ZERO SENSITIVE TERMINAL CONSTRAINTS
70 11 1 18340 PROPERTIES OF INFINITE COVARIANCE MATRICES AND STABILITY OF OPTIMUM PREDICTORS
70 11 1 18345 ENTROPY ANALYSIS OF PARAMETER ESTIMATION
70 11 2 18396 INTERACTIVE GRAPHICS IN AIRCRAFT LANDING AND TAKE-OFF STUDIES
70 11 2 18399 STABILITY STUDY OF RANDOMLY SAMPLED NONLINEAR CONTROL SYSTEMS
70 11 2 18470 CARBINE - A COMPUTER-AUTOMATED REAL-TIME BETTING INFORMATION NETWORK
70 11 2 18500 COMMERCIAL TIME-SHARING SERVICES AND UTILITIES
70 11 2 18553 MATHEMATICAL MODELING OF STOCHASTIC PROCESSES
70 11 2 18554 NEW RESULTS IN LINEAR FILTERING AND PREDICTION THEORY
70 11 4 18766 INFORMATION UTILITIES
70 11 4 18785 ON DEFINING THE SIMULATION PROCESS
70 11 4 18862 MODERN CONTROL THEORY AND COMPUTING
70 11 4 18863 A REVIEW OF CLASSICAL METHODS
70 11 4 18864 LIAPUNOV'S DIRECT METHOD IN NON-LINEAR CONTROL SYSTEMS ANALYSIS
70 11 4 18865 ADAPTIVE CONTROL SYSTEMS (HILL CLIMBING)
70 11 4 18866 ADAPTIVE CONTROL SYSTEMS (HIGH-GAIN AND MODEL REFERENCE SYSTEMS)
70 11 4 18867 THE PERSONALITY OF THE INTERACTIVE PROGRAMMED COMPUTER
70 11 4 18888 REAL-TIME GRAPHIC DISPLAY OF TIME-SHARING SYSTEM OPERATING CHARACTERISTICS
70 11 5 19037 OPERATIONS MANAGEMENT: SELECTED READINGS
70 11 5 19135 APPLICATIONS OF INFORMATION THEORY: DYNAMICAL SYSTEMS. CYBERNETIC SYSTEMS
70 11 5 19162 A TIME SHARED I-O PROCESSOR FOR REAL-TIME HYRRID COMPUTATION
70 11 6 19177 A USER'S VIEW OF THE UNITED KINGDOM TIME SHARING INDUSTRY
70 11 6 19251 QUEUEING ANALYSIS OF REAL-TIME COMPUTER PROCESSING
70 11 6 19252 FACILITATING THE MAN-MACHINE INTERFACE
70 11 6 19253 DIGITAL COMPUTER SIMULATION CONTROL TECHNIQUES
70 11 6 19254 THE DISCRETE MAXIMUM PRINCIPLE
70 11 6 19291 THEORY OF OPTIMAL CONTROL AND MATHEMATICAL PROGRAMMING
70 11 7 19430 WAITING TIME DISTRIBUTIONS FOR PROCESSOR-SHARING SYSTEMS.
70 11 7 19431 A QUEUEING THEORY STUDY OF ROUND-ROBIN SCHEDULING OF TIME-SHARED COMPUTER SYSTEMS.
70 11 8 19543 COMPUTER PROGRAMS FOR COMPUTATIONAL ASSISTANCE.
70 11 8 19624 PREEMPTIVE SCHEDULING OF REAL-TIME TASKS ON MULTIPROCESSOR SYSTEMS.
70 11 8 19625 PROCESS MANAGEMENT AND RESOURCE SHARING IN THE MULTIACCESS SYSTEM ESOPE.
70 11 9 19746 TIME SHARING TAKES OFF.
70 11 9 19774 TICKETRON-A SUCCESSFULLY OPERATING SYSTEM WITHOUT AN OPERATING SYSTEM.
70 11 10 19920 A METHOD OF COORDINATING COUPLINGS AND CONTROL FUNCTIONS.
70 11 12 20229 WHAT ABOUT THE COMPUTER UTILITY.
70 11 12 20240 THEORY OF HIERARCHICAL, MULTILEVEL SYSTEMS.
70 11 12 20274 INFORMATION NETWORKS OF COMPUTERS.

3.80 APPLICATIONS - REAL TIME SYSTEMS

3,81 APPLICATIONS
REAL TIME SYSTEMS - COMMUNICATIONS

0 0 0 57 INFORMATION CODING AND TRANSMISSION, (CODAGE ET TRANSMISSION DE L'INFORMATION)
0 11 1 18249 THE PRINCIPLES OF A DATA COMMUNICATION NETWORK FOR COMPUTERS AND REMOTE PERIPHERALS
0 11 1 18250 THE CONTROL FUNCTIONS IN A LOCAL DATA NETWORK
0 11 1 18251 GRAPHICAL SYSTEMS COMMUNICATION: AN ASSOCIATIVE MEMORY APPROACH
0 11 2 18444 MAN-COMPUTER COMMUNICATION TECHNIQUES: TWO EXPERIMENTS
0 11 2 18471 CONSIDERATIONS IN DESIGNING A COMPUTER COMMUNICATIONS SYSTEM
0 11 2 18472 EXPERIMENTS WITH A NEW MESSAGE FORMAT FOR DIGITAL ENCODING OF PICTORIAL INFORMATION
0 11 2 18559 BLOCK CODING FOR THE BINARY SYMMETRIC CHANNEL WITH NOISELESS, DELAYLESS FEEDBACK
0 11 3 18672 PUBLIC URBAN LOCATOR SERVICE (PULSE): BACKGROUND AND CONFERENCE PROCEEDINGS
0 11 3 18673 A COMMUNICATIONS CONTROL SYSTEM
0 11 3 18674 TELESCOPE
0 11 4 18820 ANALYSIS OF THE COMMUNICATIONS ASPECTS OF AN INQUIRY-RESPONSE SYSTEM
0 11 4 18868 PRACTICAL ASPECTS OF DATA COMMUNICATIONS
0 11 4 18869 A CRITICAL PERIOD IN THE ESTABLISHMENT OF A REAL-TIME SYSTEM
0 11 5 18982 A SURVEY OF COMMUNICATION TARIFF DEVELOPMENTS
0 11 5 19085 SOME SOFTWARE CONSIDERATIONS IN UTILIZATION OF A NETWORK OF COMPUTERS
0 11 6 19197 AN INTERACTIVE COMPUTER SYSTEM USING GRAPHICAL FLOWCHART INPUT
0 11 6 19224 ADVANCES IN CYBERNETICS
0 11 6 19255 A GENERALISED COMPUTER TO COMPUTER LINK FOR AN IBM 360 COMPUTER
0 11 6 19263 ANALYSIS AND OPTIMIZATION OF A QUEUEING MODEL OF A REAL-TIME COMPUTER CONTROL SYSTEM
0 11 6 19307 PAPERS ON DIGITAL SIGNAL PROCESSING
0 11 7 19373 HARDWARE FOR PURPOSIVE SYSTEMS.
0 11 8 19527 A FEEDBACK QUEUEING SYSTEM WITH BATCH ARRIVALS, BULK SERVICE, AND QUEUE-DEPENDENT SERVICE TIME.
0 11 8 19606 PROCESS CONTROL AND COMMUNICATION
0 11 9 19693 COMMUNICATIONS: A SYMPOSIUM.
0 11 9 19694 COMMUNICATIONS TECHNOLOGY-A FORECAST OF CHANGE.
0 11 9 19695 ON THE IMPACT OF THE NEW COMMUNICATIONS MEDIA UPON SOCIAL VALUES.
0 11 9 19696 COMMUNICATIONS AND POLITICS: THE MEDIA AND THE MESSAGE.
0 11 9 19697 COMMON CARRIER REGULATION-THE SILENT CRISIS.
0 11 9 19698 THE EARLY COMPETITIVE ERA IN TELEPHONE COMMUNICATION, 1893-1920.
0 11 9 19699 COMPUTERS AND COMMUNICATIONS: THE ECONOMICS OF INTERDEPENDENCE.
0 11 9 19700 POLICY ISSUES PRESENTED BY THE INTERDEPENDENCE OF COMPUTER AND COMMUNICATIONS SERVICES.
0 11 9 19749 AN ELECTRONIC NETWORK FOR INTERBANK PAYMENT COMMUNICATIONS: A DESIGN STUDY.
0 11 10 19872 USE OF A REMOTE CONSOLE SYSTEM ON A UNIVERSITY CAMPUS.
0 11 10 19911 LISTAR-LINCOLN INFORMATION STORAGE AND ASSOCIATIVE RETRIEVAL SYSTEM.
0 11 10 19960 ARCHITECTURE OF A REAL-TIME FAST FOURIER RADAR SIGNAL PROCESSOR.
0 11 10 20025 COMPUTER SIMULATION OF PULSE PROPAGATION THROUGH A PERIODIC LOADED TRANSMISSION LINE.
0 11 11 20133 AN INTERACTIVE COMMAND GENERATING FACILITY.
0 11 11 20143 A COMPARISON OF SYSTEM COMMANDS AND EDITING FACILITIES IN CONVERSATIONAL TIME SHARING SYSTEMS.
0 11 11 20144 ANALYSIS OF JOB MANAGEMENT FUNCTIONS IN MULTIPROGRAMMING COMPUTER OPERATING SYSTEMS.
0 11 11 20210 TELEPROCESSING NETWORK ORGANIZATION.

3,82 APPLICATIONS
REAL TIME SYSTEMS - INDUSTRIAL PROCESS CONTROL

0 0 0 41 PRINCIPLES OF NUMERICAL CONTROL.
0 0 0 170 THE ORIGINS OF FEEDBACK CONTROL.
0 11 2 18370 APPLICATION OF SIMULATION TO THE GENERALIZED OPTIMIZATION OF PROCESS CONTROL SYSTEMS
0 11 2 18473 NUMERICAL CONTROL
0 11 2 18474 SIMULATION OF A NATURAL GAS TRANSMISSION SYSTEM USING MIMIC
0 11 3 18594 THE USE OF A REMOTE TERMINAL INPUT SYSTEM FOR SIMULATION OF A STEAM PRESSURE SYSTEM
0 11 3 18609 COMPUTER-AIDED SCULPTURE
0 11 4 18862 MODERN CONTROL THEORY AND COMPUTING
0 11 4 18870 NETWORK ANALYSIS FOR SHORT-DURATION PROJECTS
0 11 [illegible] 18871 SOME RESULTS OF CONNECTING (AGGREGATING) NETWORKS IN BUILDING
0 11 4 18872 HOW TO IMPROVE PROJECT CONTROL
0 11 4 18873 MULTIVARIABLE AND OPTIMAL CONTROL SYSTEMS
0 11 4 18972 A TOUCH SENSITIVE X-Y POSITION ENCODER FOR COMPUTER INPUT
0 11 5 18994 THE UTILIZATION OF THE COMPUTER IN X-RAY ANALYSIS
0 11 5 19084 A PROCESS-CONTROL LANGUAGE
0 11 6 19218 MODELS OF SIMULATION
0 11 6 19256 DIGITAL COMPUTING IN CONTROL
0 11 6 19305 A TIME-SHARED DIGITAL FILTER REALIZATION
0 11 7 19373 HARDWARE FOR PURPOSIVE SYSTEMS.
0 11 [illegible] 19545 COMPUTER DESIGN.
0 11 [illegible] 19608 INTEGRATED DATA BASE IS KEY TO PRODUCTION CONTROL SYSTEM.
0 11 8 19636 A MATHEMATICAL PROGRAMMING IDENTIFICATION SYSTEM
0 11 [illegible] 19799 MULTIPROGRAMMING IN A SMALL-SYSTEMS ENVIRONMENT.
0 11 9 19808 A METHOD OF SMOOTH CURVE FITTING.
0 11 11 20138 THE PROGRAMMING LANGUAGE IFAPT.

3,83 APPLICATIONS
REAL TIME SYSTEMS - TELEMETRY, MISSILES, SPACE

0 0 0 139 SPACE SCIENCES DATA PROCESSING.
0 0 [illegible] 164 BIO-MEDICAL TELEMETRY. (2D ED)
0 11 [illegible] 18475 GRAPHIC TIME-SHARING WITH REAL-TIME DATA BASES
0 11 [illegible] 18592 A MODIFIED NEWTON-RAPHSON METHOD FOR DETERMINING STABILITY DERIVATIVES FROM FLIGHT DATA
0 11 3 18593 A HYBRID FREQUENCY RESPONSE TECHNIQUE AND ITS APPLICATION TO AIRCRAFT FLIGHT FLUTTER TESTING
0 11 3 18628 DESIGN OF DISTRIBUTED COMMUNICATIONS SYSTEM - A CASE STUDY
0 11 3 18672 PUBLIC URBAN LOCATOR SERVICE (PULSE): BACKGROUND AND CONFERENCE PROCEEDINGS
0 11 [illegible] 18738 EFFICIENT COMMUNICATIONS OVER ASYMMETRIC CHANNELS
0 11 5 19075 A KALMAN-FILTER TRACKING PROGRAM FOR ILLIAC IV
0 11 [illegible] 19095 DEBUGGING AND ASSESSMENT OF CONTROL PROGRAMS FOR AN AUTOMATIC RADAR
0 11 5 19144 MODULAR COMPUTER ARCHITECTURE STRATEGY FOR LONG TERM MISSIONS
0 11 6 19257 DATA INFORMATION SYSTEM AT THE NATIONAL SPACE SCIENCE DATA CENTER
0 11 6 19305 A TIME-SHARED DIGITAL FILTER REALIZATION
0 11 7 19371 INTERACTIVE COMPUTER GRAPHICS AT ROLLS-ROYCE.

70 11 11 20209 AEROSPACE COMPUTERS.

3,89 APPLICATIONS
REAL TIME SYSTEMS - MISCELLANEOUS

70 11 1 18175 SOME LEGAL ASPECTS OF COMMERCIAL REMOTE ACCESS COMPUTER SERVICES
70 11 1 18186 CURVE FITTING AND EDITING VIA INTERACTIVE GRAPHICS
70 11 1 18187 FORTRAN CODES TO FIT CURVES INTERACTIVELY
70 11 1 18188 ANALYST ASSISTANCE PROGRAM (AAP)
70 11 1 18252 DATA STRUCTURES AND TECHNIQUES FOR REMOTE COMPUTER GRAPHICS
70 11 1 18253 THE UTILISATION OF GRAPHIC DISPLAY UNITS AS THE MAIN FORM OF COMPUTER INPUT
70 11 1 18254 A VARIABLE-LENGTH CODE FOR AN INCREMENTAL DISPLAY SYSTEM
70 11 2 18394 DIGITAL SIMULATION IN CONTROL SYSTEMS DESIGN OF THE GENTILLY NUCLEAR GENERATING STATION
70 11 2 18573 DETERMINING THE TRANSFER FUNCTION OF THE OPERATOR BY MEANS OF A SELF-REGULATING ANALOG COMPUTER
70 11 3 18634 ON MODELLING THE ADAPTIVE CHARACTERISTICS OF HUMAN CONTROLLERS
70 11 3 18643 STANFORD UNIVERSITY LIBRARIES PROJECT BALLOTS: A SUMMARY
70 11 3 18647 THE UNIVERSITY OF CHICAGO'S BOOK PROCESSING SYSTEM: PROGRAMMING DEVELOPMENT
70 11 5 18987 NEW RESEARCH TECHNIQUES FOR THE LIFE SCIENCES
70 11 5 19087 COMMENT ON A PAGING ANOMALY
70 11 5 19158 THE DEVELOPMENT OF SYSTEMS FOR ON-LINE MATHEMATICS AT HARVARD
70 11 6 19200 COMPUTER-BASED PATIENT MONITORING
70 11 6 19201 THE COMPREHENSIVE PATIENT-MONITORING CONCEPT
70 11 6 19215 LIBRARY SERIALS CONTROL USING A GENERAL-PURPOSE DATA MANAGEMENT SYSTEM
70 11 6 19244 LIBRARY INFORMATION SYSTEM TIME-SHARING ON A LARGE, GENERAL-PURPOSE COMPUTER
70 11 7 19417 THE ILLINOIS STATE LIBRARY: 'ON-LINE' CIRCULATION CONTROL SYSTEM.
70 11 7 19490 DESIGN PRINCIPLES FOR PROCESSOR MAINTAINABILITY IN REAL-TIME SYSTEMS.
70 11 8 19564 A GENERAL PURPOSE DIGITAL TRAFFIC SIMULATOR.
70 11 8 19673 AN APPROACH TO CONVERSATIONAL STATISTICS.
70 11 9 19801 RCA'S TIME-SHARING OPERATING SYSTEM.
70 11 9 19853 INTERACTIVE COMPUTER GRAPHICS: SOME INTERPOLATIONS AND EXTRAPOLATIONS.
70 11 10 19885 REAL-TIME ANALYSIS OF ELECTROCARDIOGRAMS BY COMPUTER.
70 11 11 20215 A PRAPHICS SYSTEM FOR POLE-ZERO MAP ANALYSIS.
70 11 12 20287 AN ATTACK ON THE PROBLEMS OF SPEECH ANALYSIS AND SYNTHESIS WITH THE POWER OF AN ON-LINE SYSTEM.

3,90 APPLICATIONS
MISCELLANEOUS

70 11 9 19855 LINEAR CURRENT DIVISION IN RESISTIVE AREAS: ITS APPLICATION TO COMPUTER GRAPHICS.

4,00 PROGRAMMING
GENERAL

70 0 0 11 BEHIND THE SOFTWARE CURTAIN; OR, PROGRAMMING IN ENGLAND.
70 0 0 30 SOFTWARE ENGINEERING TECHNIQUES.
70 0 0 39 PRACTICAL SYSTEMS ANALYSIS.
70 0 0 40 PROGRAMMING BY CASE STUDIES.
70 0 0 209 TECHNIQUES IN COMPUTER PROGRAMMING.
70 11 1 18255 FLOWRITE - A COMPUTER-GENERATED FLOWCHART TECHNIQUE FOR THE NCR CENTURY
70 11 2 18363 BASIC PROGRAMMING CONCEPTS AND THE IBM 1620 COMPUTER
70 11 2 18364 FUNDAMENTALS OF DIGITAL COMPUTERS
70 11 2 18476 PROGRAMMER'S GUIDE TO THE IBM SYSTEM-360
70 11 2 18477 THE ART OF COMPUTER PROGRAMMING, VOL. 2: SEMINUMERICAL ALGORITHMS
70 11 2 18478 THE ART OF COMPUTER PROGRAMMING, VOL. 2: SEMINUMERICAL ALGORITHMS
70 11 2 18479 PROGRAMMING: AN INTRODUCTION TO COMPUTER LANGUAGES AND TECHNIQUES
70 11 3 18574 PROC. AFIPS 1969 FALL JOINT COMPUTER CONF., VOL. 35, LAS VEGAS, NEVADA, NOV. 1969
70 11 3 18578 COMPUTER SCIENCE: A FIRST COURSE
70 11 3 18581 COMPUTERS - A SELF-TEACHING INTRODUCTION
70 11 4 18764 COMPUTER SCIENCES VS. SOFTWARE ENGINEERING
70 11 4 18874 SOFTWARE COMPATIBILITY: WHAT WAS PROMISED, WHAT WE HAVE, WHAT WE NEED
70 11 5 18973 CONDENSED COMPUTER ENCYCLOPEDIA
70 11 5 18985 SIMULATING OPERATING SYSTEMS
70 11 7 19328 DIGITAL COMPUTER PRINCIPLES.
70 11 8 19508 COMPUTING AND COMPUTER SCIENCE - A FIRST COURSE WITH FORTRAN IV.
70 11 9 19691 THE ELEMENTS OF DIGITAL COMPUTER PROGRAMMING.
70 11 9 19836 INTRODUCTION TO STATISTICAL DATA PROCESSING.
70 11 10 19864 A FIRST COURSE IN COMPUTING AND NUMERICAL METHODS.
70 11 11 20045 PROGRAMMING FOR A DIGITAL COMPUTER IN THE FORTRAN LANGUAGE.

4,10 PROGRAMMING
PROCESSORS - GENERAL

70 11 1 18158 AUTOMATIC DATA PROCESSING: SYSTEM-360 EDITION
70 11 1 18183 A HARDWARE INSTRUMENTATION APPROACH TO EVALUATION OF A LARGE-SCALE SYSTEM
70 11 1 18256 MEETING THE COMPUTATIONAL REQUIREMENTS OF THE UNIVERSITY: THE BROWN UNIVERSITY INTERACTIVE LANGUAGE
70 11 2 18373 EDUCATIONAL COMPUTER UTILITIES
70 11 2 18480 A CONVERSATIONAL GRAPHIC DATA PROCESSING SYSTEM: THE IBM 1130-2250
70 11 3 18681 360 PROGRAMMING IN ASSEMBLY LANGUAGE
70 11 4 18875 SOFTWARE DEVELOPMENT FOR THE ARRAY COMPUTER ILLIAC IV
70 11 5 19076 SYNTHESIS AND ANALYSIS: A FLEXIBLE TECHNIQUE FOR PROCESSING COMMAND LANGUAGE
70 11 5 19077 ASSEMBLERS AND LOADERS
70 11 5 19085 SOME SOFTWARE CONSIDERATIONS IN UTILIZATION OF A NETWORK OF COMPUTERS
70 11 8 19621 THE SYSTEM DESIGN CYCLE.
70 11 8 19622 THE ROLE OF MOTHERHOOD IN THE POP ART OF SYSTEM PROGRAMMING.
70 11 8 19626 BASIC TIME-SHARING: A SYSTEM OF COMPUTING PRINCIPLES.
70 11 9 19789 COMPARATIVE OPERATING SYSTEMS: A SYMPOSIUM
70 11 9 19805 HELPER: AN INTERACTIVE EXTENSIBLE DEBUGGING SYSTEM.
70 11 11 20140 SPRINT-A PROGRAMMING LANGUAGE WITH GENERAL STRUCTURE.
70 11 11 20141 PL/I - FORTRAN INTERFACE SYSTEM.

4.11 PROGRAMMING
PROCESSORS - ASSEMBLERS

70 11 1 18257 THE COMPILED MACRO ASSEMBLER
70 11 1 18261 A NEW METHOD FOR DETERMINING LINEAR PRECEDENCE FUNCTIONS FOR PRECEDENCE GRAMMARS
70 11 2 18369 ASSEMBLER-LANGUAGE MACROPROGRAMMING: A TUTORIAL ORIENTED TOWARD THE IBM 360
70 11 4 18756 ASSEMBLER LANGUAGE PROGRAMMING: THE I.B.M. SYSTEM-360
70 11 5 19077 ASSEMBLERS AND LOADERS
70 11 9 19782 INTRODUCTION TO PROGRAMMING. II. PROGRAMMING IN AN ASSEMBLY LANGUAGE.
70 11 10 19863 COMPUTING: AN INTRODUCTION.
70 11 10 19933 THE PROGRAMMING SYSTEM PS-LYAPAS.

4.12 PROGRAMMING
PROCESSORS - COMPILERS AND GENERATORS

70 11 1 18189 NUCLEAR REACTOR STABILITY ANALYSIS BY S-360 CSMP
70 11 1 18256 MEETING THE COMPUTATIONAL REQUIREMENTS OF THE UNIVERSITY: THE BROWN UNIVERSITY INTERACTIVE LANGUAGE
70 11 1 18258 BCPL: A TOOL FOR COMPILER WRITING AND SYSTEM PROGRAMMING
70 11 1 18259 SOFTWARE MEASUREMENTS AND THEIR INFLUENCE UPON MACHINE LANGUAGE DESIGN
70 11 1 18260 A BASE FOR A MOBILE PROGRAMMING SYSTEM
70 11 1 18261 A NEW METHOD FOR DETERMINING LINEAR PRECEDENCE FUNCTIONS FOR PRECEDENCE GRAMMARS
70 11 1 18262 SOFTWARE TO TRANSLATE TELCOMP PROGRAMS INTO KDF9 ALGOL
70 11 1 18269 TOWARDS A THEORY OF SEMANTICS AND COMPILERS FOR PROGRAMMING LANGUAGES
70 11 1 18331 A PROOF OF HAMBLIN'S ALGORITHM FOR TRANSLATION OF ARITHMETIC EXPRESSIONS FROM INFIX TO POSTFIX FORMS
70 11 2 18481 A SYSTEM FOR THE CONSTRUCTION OF VARIABLE MODEL COMPILERS AND SCHEDULERS
70 11 2 18482 GENERATION OF OPTIMAL CODE FOR EXPRESSIONS VIA FACTORIZATION
70 11 2 18483 OPTIMAL CODE FOR SERIAL AND PARALLEL COMPUTATION
70 11 2 18484 A COMPACT FORM OF ONE-TRACK SYNTAX ANALYSER
70 11 2 18492 THE IITRAN PROGRAMMING LANGUAGE
70 11 2 18564 METHODS USED IN AN AUTOMATIC LOGIC DESIGN GENERATOR (ALERT)
70 11 3 18675 ORGANIZING MATRICES AND MATRIX OPERATIONS FOR PAGED MEMORY SYSTEMS
70 11 3 18676 THE MULTICS PL/I COMPILER
70 11 3 18677 A TRANSLATOR WRITING SYSTEM
70 11 3 18678 SPL COMPILER
70 11 3 18679 OPTIMIZATION OF EXPRESSIONS IN FORTRAN
70 11 3 18680 APAREL - A PARSE-REQUEST LANGUAGE
70 11 3 18722 A PRACTICAL METHOD FOR CONSTRUCTING LR(K) PROCESSORS
70 11 4 18876 AUTOMATIC SEGMENTATION OF CYCLIC PROGRAM STRUCTURES BASED ON CONNECTIVITY AND PROCESSOR TIMING
70 11 4 18882 TOWARD FORTRAN VI? PART 2. FORTRAN IN THE MODERN WORLD
70 11 5 19078 THE CONSTRUCTION OF EFFICIENT DETERMINISTIC LANGUAGE PROCESSORS
70 11 6 19258 AN EFFICIENT CONTEXT-FREE PARSING ALGORITHM
70 11 6 19259 INCREMENTAL COMPILERS
70 11 6 19261 TRANQUIL: A LANGUAGE FOR AN ARRAY PROCESSING COMPUTER
70 11 7 19436 SPELLING CORRECTION ON SYSTEMS PROGRAMS.
70 11 8 19612 MACHINE INDEPENDENT SOFTWARE.
70 11 8 19614 OPERATIONS ON GENERALIZED ARRAYS WITH THE GENIE COMPILER.
70 11 8 19629 CREATION AND CONTROL OF INTERNAL DATA BASES UNDER A FORTRAN PROGRAMMING ENVIRONMENT.
70 11 8 19674 THE CONTINUING DEVELOPMENT OF A STATISTICAL SYSTEM.
70 11 9 19778 USING THE COMPUTER FOR PROGRAM CONVERSION.
70 11 9 19805 HELPER: AN INTERACTIVE EXTENSIBLE DEBUGGING SYSTEM.
70 11 10 19863 COMPUTING: AN INTRODUCTION.
70 11 10 19924 A NETWORK REPRESENTATION OF SERIAL CODE.
70 11 10 19926 DATA IMPLEMENTATION IN PL/I.
70 11 10 19927 PRINCIPLES OF A SYNTACTICAL METHOD FOR COMPILER WRITING.
70 11 10 19935 BALM-AN EXTENDABLE LIST-PROCESSING LANGUAGE.
70 11 10 19936 DESIGN AND ORGANIZATION OF A TRANSLATOR FOR A PARTIAL DIFFERENTIAL EQUATION LANGUAGE.
70 11 10 19939 REPORT ON THE ALGORITHMIC LANGUAGE ALGOL 68.
70 11 11 20098 A PARSER FOR A RESTRICTED ARBITRARY PHRASE STRUCTURE GRAMMAR.

4.13 PROGRAMMING
PROCESSORS - INTERPRETERS

70 11 1 18256 MEETING THE COMPUTATIONAL REQUIREMENTS OF THE UNIVERSITY: THE BROWN UNIVERSITY INTERACTIVE LANGUAGE
70 11 2 18490 A MATHEMATICAL PROBLEM SOLVING LANGUAGE AND ITS INTERPRETER
70 11 4 18877 A NEW RULE MASK TECHNIQUE FOR INTERPRETING DECISION TABLES
70 11 6 19259 INCREMENTAL COMPILERS
70 11 8 19611 A STRUCTURAL VIEW OF PL/I.
70 11 8 19673 AN APPROACH TO CONVERSATIONAL STATISTICS.
70 11 9 19805 HELPER: AN INTERACTIVE EXTENSIBLE DEBUGGING SYSTEM.
70 11 10 19935 BALM-AN EXTENDABLE LIST-PROCESSING LANGUAGE.
70 11 10 19936 DESIGN AND ORGANIZATION OF A TRANSLATOR FOR A PARTIAL DIFFERENTIAL EQUATION LANGUAGE.
70 11 10 19964 UNIFORM GENERALIZED WEIGHT FUNCTION POLYNOMIAL APPROXIMATION WITH INTERPOLATION.

4.19 PROGRAMMING
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70 11 1 18263 MEASUREMENT-BASED AUTOMATIC ANALYSIS OF FORTRAN PROGRAMS
70 11 2 18436 A TECHNIQUE FOR CONSTRUCTING DECISION TABLES
70 11 4 18848 FILE ORGANIZATION AND SEARCH STRATEGY USING UDC IN MECHANIZED REFERENCE RETRIEVAL SYSTEMS
70 11 5 19079 FORMATTING AND DISPLAY OF ALGOL EXPRESSIONS
70 11 8 19627 THEORY AND PRACTICE IN OPERATING SYSTEM DESIGN
70 11 9 19800 BASIC I-O HANDLING ON BURROUGHS B6500.

4.20 PROGRAMMING
PROGRAMMING LANGUAGES - GENERAL

70 11 1 18189 NUCLEAR REACTOR STABILITY ANALYSIS BY S-360 CSMP
70 11 1 18201 ANALYSIS OF CONTROL-MECHANISM PERFORMANCE CRITERIA FOR AN ABOVE-KNEE LEG PROSTHESIS
70 11 1 18239 A NONLINEAR BIOMECHANICAL MODEL OF THE HUMAN IRIS
70 11 1 18259 SOFTWARE MEASUREMENTS AND THEIR INFLUENCE UPON MACHINE LANGUAGE DESIGN
70 11 1 18264 PROC. CONF. ON APPLICATIONS OF CONTINUOUS SYSTEM LANGUAGES
70 11 1 18328 AN AXIOMATIC BASIS FOR COMPUTER PROGRAMMING
70 11 2 18364 FUNDAMENTALS OF DIGITAL COMPUTERS
70 11 2 18485 FORTRAN IID ON THE IBM 1620: INTRODUCTION TO DIGITAL

COMPUTER PROGRAMMING
70 11 2 18566 PL/I REDUCER AND DIRECT PROCESSOR
70 11 3 18659 REAL ENGLISH: A TRANSLATOR TO ENABLE NATURAL LANGUAGE MAN-MACHINE CONVERSATION
70 11 3 18677 A TRANSLATOR WRITING SYSTEM
70 11 3 18680 APAREL - A PARSE-REQUEST LANGUAGE
70 11 3 18681 360 PROGRAMMING IN ASSEMBLY LANGUAGE
70 11 6 19174 HIERARCHICAL ASPECTS OF COMPUTER LANGUAGE
70 11 6 19186 ISDS - A PROGRAM THAT DESIGNS COMPUTER INSTRUCTION SETS
70 11 7 19480 AN ALGORITHM FOR MULTIVARIATE ANALYSIS OF COVARIANCE (IMPLEMENTED IN AARDVARK).
70 11 11 20038 COMPUTER SCIENCE: FORTRAN LANGUAGE.
70 11 11 20044 COMPUTER USAGE-360 ASSEMBLY PROGRAMMING.
70 11 11 20109 MANAGEMENT INFORMATION RETRIEVAL.
70 11 11 20137 HIGHER LEVEL LANGUAGES - WHAT AND WHY.
70 11 11 20139 A RING PROCESSING PACKAGE FOR USE WITH FORTRAN OR A SIMILAR HIGH-LEVEL LANGUAGE.
70 11 12 20220 FORTRAN IV PROGRAMMING: BASED ON THE IBM SYSTEM 1130.

4.21 PROGRAMMING
PROGRAMMING LANGUAGES - MACHINE ORIENTED LANGUAGES

70 11 1 18265 SAL - SYSTEMS ASSEMBLY LANGUAGES
70 11 1 18266 COMPACT LIST REPRESENTATION: DEFINITION, GARBAGE COLLECTION, AND SYSTEM IMPLEMENTATION
70 11 4 18756 ASSEMBLER LANGUAGE PROGRAMMING: THE I.B.M. SYSTEM-360
70 11 4 18889 AN ON-LINE MACHINE LANGUAGE DEBUGGER FOR OS-360
70 11 6 19260 SEISMIC SIGNAL PROCESSING VIA THE ILLIAC IV COMPUTER
70 11 8 19610 BUILDING A MOBILE PROGRAMMING SYSTEM.
70 11 9 19777 A MACRO-ASSEMBLER FOR ILLIAC IV.
70 11 9 19783 ICL: A CONTROL LANGUAGE FOR ILLIAC IV.
70 11 10 19929 TRANSLATOR FOR URAL-1.
70 11 10 19938 THE USE OF ALGOL 68 FOR TREES.
70 11 10 19947 CHECKING OUT L-PROGRAMS ON URAL-1.

4.22 PROGRAMMING
PROGRAMMING LANGUAGES - PROCEDURE-PROBLEM ORIENTED LANGUAGES

70 0 0 33 RPG I AND RPG II PROGRAMMING.
70 0 0 [illegible] INTRODUCTION TO COMPUTER PROGRAMMING IBM SYSTEM-360 ASSEMBLER
70 0 0 54 FORTRAN IV WITH WATFOR AND WATFIV.
70 0 0 78 PL/I FOR SCIENTIFIC PROGRAMMERS.
70 0 0 92 PROGRAMMING LANGUAGES.
70 0 0 99 TRANSLATION OF ALGOL 60.
70 0 0 104 COMPREHENSIVE STANDARD FORTRAN PROGRAMMING.
70 0 0 147 FORMAL DEFINITION OF ALGOL 60.
70 0 0 153 A GUIDE TO COBOL PROGRAMMING. (2D ED)
70 0 0 173 A NONLINEAR PROGRAMMING ALGORITHM FOR AN ARRAY COMPUTER.
70 0 0 185 APL-360 REFERENCE MANUAL.
70 0 0 221 DISCOVERING BASIC: A PROBLEM SOLVING APPROACH.
70 0 0 224 PL/I: A SELF-INSTRUCTIONAL MANUAL.
70 0 0 232 COMPUTER USAGE: 360 FORTRAN PROGRAMMING.
70 0 0 234 COMPUTER USAGE-360 COBOL PROGRAMMING.
70 0 0 240 ELEMENTS OF BASIC FORTRAN IV PROGRAMMING, AS IMPLEMENTED ON THE
70 0 0 243 PROBLEM SOLVING BY DIGITAL COMPUTERS WITH PL/I PROGRAMMING. LANGUAGE.
IBM 1130-1800 COMPUTER.
70 11 1 18195 LINEAR CIRCUIT ANALYSIS BY SYMBOLIC ALGEBRA
70 11 1 18196 CHIBCHA-I: FIRST ELECTRONIC COMPUTER 'BUILT' IN COLOMBIA
70 11 1 18216 AN INTRODUCTION TO COBOL COMPUTER PROGRAMMING FOR ACCOUNTING AND BUSINESS ANALYSIS
70 11 1 18251 GRAPHICAL SYSTEMS COMMUNICATION: AN ASSOCIATIVE MEMORY APPPROACH
70 11 1 18255 FLOWRITE - A COMPUTER-GENERATED FLOWCHART TECHNIQUE FOR THE NCR CENTURY
70 11 1 18256 MEETING THE COMPUTATIONAL REQUIREMENTS OF THE UNIVERSITY: THE BROWN UNIVERSITY INTERACTIVE LANGUAGE
70 11 1 18258 BCPL: A TOOL FOR COMPILER WRITING AND SYSTEM PROGRAMMING
70 11 1 18266 COMPACT LIST REPRESENTATION: DEFINITION, GARBAGE COLLECTION, AND SYSTEM IMPLEMENTATION
70 11 1 18267 SYMBOL MANIPULATION LANGUAGES
70 11 1 18268 SIGEC: A LANGUAGE ORIENTED TO THE SOLUTION OF GEOMETRIC PROBLEMS IN ENGINEERING
70 11 1 18269 TOWARDS A THEORY OF SEMANTICS AND COMPILERS FOR PROGRAMMING LANGUAGES
70 11 1 18270 SLANG: A PROBLEM SOLVING LANGUAGE FOR CONTINUOUS-MODEL SIMULATION AND OPTIMIZATION
70 11 1 18271 W-GRAMMAR
70 11 1 18272 WHY ANOTHER PROGRAMMING LANGUAGE?
70 11 1 18273 PL/I - PROS AND CONS
70 11 1 18312 A THEORY OF PROGRAMMING LANGUAGES
70 11 1 18312 A THEORY OF COMPUTING MACHINES
70 11 1 18329 RECURSION INDUCTION APPLIED TO GENERALIZED FLOWCHARTS
70 11 1 18353 MORE ON SIMULATION LANGUAGES AND DESIGN METHODOLOGY FOR COMPUTER SYSTEMS
70 11 2 18396 INTERACTIVE GRAPHICS IN AIRCRAFT LANDING AND TAKE-OFF STUDIES
70 11 2 18397 NETWORK COMPUTER ANALYSIS
70 11 2 18408 PROMISING DEVELOPMENTS IN COMPUTER ASSISTED INSTRUCTION
70 11 2 18430 CURRENT COMPUTING ACTIVITY IN SCANDINAVIA RELATED TO LANGUAGE AND LITERATURE RESEARCH
70 11 2 18459 A COMPARATIVE STUDY OF MECHANIZED SEARCH LANGUAGES
70 11 2 18481 A SYSTEM FOR THE CONSTRUCTION OF VARIABLE MODEL COMPILERS AND SCHEDULERS
70 11 2 18486 A COURSE ON PROGRAMMING IN FORTRAN IV
70 11 2 18487 A FIRST COURSE IN ALGOL 60
70 11 2 18488 INTRODUCTION TO THE LANGUAGE ALGOL
70 11 2 18489 ELEMENTS OF BASIC FORTRAN IV PROGRAMMING
70 11 2 18490 A MATHEMATICAL PROBLEM SOLVING LANGUAGE AND ITS INTERPRETER
70 11 2 18491 A SLANG SIMULATION OF THE PROPAGATION OF AN INITIALLY STRONG SHOCK WAVE DOWNSTREAM OF AN INFINITE AREA CHANGE
70 11 2 18492 THE IITRAN PROGRAMMING LANGUAGE
70 11 2 18493 BALM - AN EXTENDABLE LIST-PROCESSING LANGUAGE
70 11 2 18494 THE APL LANGUAGE AND STATISTICAL COMPUTATIONS
70 11 2 18495 AN ECONOMICAL DISPLAY SYSTEM
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70 11 3 18617 SURVEY OF MANAGEMENT INFORMATION SYSTEMS AND THEIR LANGUAGES
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70 11 10 19912 DATA MANAGEMENT IN ORDINARY ENGLISH: EXAMPLES.
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70 11 1 18274 AN ANOMALY IN SPACE-TIME CHARACTERISTICS OF CERTAIN PROGRAMS RUNNING IN A PAGING MACHINE
70 11 1 18275 DATA STRUCTURES AND THEIR REPRESENTATION IN STORAGE
70 11 1 18276 A COMPARISON OF FILE ORGANIZATION TECHNIQUES
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70 11 2 18497 SOME GRAPH PARTITIONING PROBLEMS RELATED TO PROGRAM SEGMENTATION
70 11 2 18498 A MODULAR APPROACH TO FILE SYSTEM DESIGN
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70 11 3 18687 DYNAMIC PROTECTION STRUCTURES

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70 11 2 18508 FILE ORGANIZATION: ON THE SELECTION OF RANDOM ACCESS INDEX POINTS FOR SEQUENTIAL FILES
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70 11 3 18690 PARALLELISM EXPOSURE AND EXPLOITATION IN DIGITAL COMPUTING SYSTEMS
70 11 5 18984 ON THE TRADEOFF BETWEEN RESPONSE AND PREEMPTION COSTS IN

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70 11 5 19094 THE USE OF QUADRATIC RESIDUE RESEARCH
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70 11 2 18511 NOTES ON THE ADAPTIVE SIMPSON QUADRATURE ROUTINE
70 11 2 18522 ERROR ESTIMATION IN THE CLENSHAW-CURTIS QUADRATURE FORMULA
70 11 2 18524 ON THE NATURE OF CERTAIN QUADRATURE FORMULAS AND THEIR ERRORS
70 11 3 18592 A MODIFIED NEWTON-RAPHSON METHOD FOR DETERMINING STABILITY DERIVATIVES FROM FLIGHT DATA
70 11 3 18692 'LOGICAL' ARITHMETIC ON COMPUTERS WITH TWO'S COMPLEMENT BINARY ARITHMETIC
70 11 3 18693 THE CHOICE OF BASE
70 11 3 18733 AN APPRAISAL OF LEAST SQUARES PROGRAMS FOR THE ELECTRONIC COMPUTER FROM THE POINT OF VIEW OF THE USER
70 11 4 18901 SOME ASPECTS OF SCALING INVARIANCE
70 11 4 18903 AN ALGORITHM FOR SOLVING LINEAR ALGEBRAIC EQUATIONS USING RESIDUE ARITHMETIC I
70 11 4 18907 NEVILLE'S AND ROMBERG'S PROCESSES: A FRESH APPRAISAL WITH EXTENSIONS
70 11 4 18967 TABLE-LOOKUP-INTERPOLATION FUNCTION GENERATION FOR FIXED-POINT DIGITAL COMPUTATIONS
70 11 5 19096 ANOTHER METHOD OF CONVERTING FROM HEXADECIMAL TO DECIMAL
70 11 5 19098 FAST MULTIPLIERS
70 11 5 19099 ON RANGE-TRANSFORMATION TECHNIQUES FOR DIVISION
70 11 5 19101 SELF-CONTAINED EXPONENTIATION
70 11 6 19307 PAPERS ON DIGITAL SIGNAL PROCESSING
70 11 7 19437 TRUNCATION ERROR BOUNDS FOR CONTINUED FRACTIONS.
70 11 8 19637 INTERPOLATION IN SOBOLEV FUNCTION SPACES.
70 11 9 19811 TRUNCATION ERROR ESTIMATES FOR T-FRACTIONS.
70 11 10 19953 BEZOUTIANTS, ELIMINATION AND LOCALIZATION.

5.11 MATHEMATICS OF COMPUTATION - NUMERICAL ANALYSIS

0 11 10 19954 ACCURATE FLOATING-POINT SUMMATION.
0 11 10 19985 ALTERNATING DIRECTION METHODS FOR PARABOLIC EQUATIONS IN TWO SPACE DIMENSIONS WITH A MIXED DERIVATIVE.
0 11 10 19991 ERROR BOUNDS FOR SPLINE-APPROXIMATED EIGENVALUES OF ORDINARY DIFFERENTIAL EQUATIONS.
0 11 10 20010 MATRIX DECOMPOSITIONS AND STATISTICAL CALCULATIONS.
0 11 10 20016 AN ERROR-DETECTING BINARY ADDER: A HARDWARE-SHARED IMPLEMENTATION.
0 11 11 20163 THE QR ALGORITHM FOR SYMMETRIC TRIDIAGONAL MATRICES USING A SEMI-IMPLICIT SHIFT OF ORIGIN.
0 11 11 20168 ESTIMATING GAUSS-CHEBYSHEV QUADRATURE ERRORS.

5.12 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - FUNCTION EVALUATION

0 11 1 18189 NUCLEAR REACTOR STABILITY ANALYSIS BY S-360 CSMP
0 11 3 18694 TABLES OF DISTRIBUTIONS OF POSITIVE DEFINITE QUADRATIC FORMS IN CENTRAL NORMAL VARIABLES
0 11 4 18894 MULTIPLIER AND GRADIENT METHODS
0 11 5 19100 REMARKS ON A PAPER BY G. POLYA ON THE DETERMINATION OF ZEROS OF ENTIRE FUNCTIONS
0 11 6 19267 CONSTRUCTIVE ASPECTS OF THE FUNDAMENTAL THEOREM OF ALGEBRA
0 11 6 19268 A NEWER FAILING, FAST CONVERGENT ROOT-FINDING ALGORITHM
0 11 6 19269 A CONSTRUCTIVE FORM OF THE SECOND GAUSS PROOF OF THE FUNDAMENTAL THEOREM OF ALGEBRA
0 11 6 19270 UNIFORMLY CONVERGENT ALGORITHMS FOR THE SIMULTANEOUS APPROXIMATION OF ALL ZEROS OF A POLYNOMIAL
0 11 6 19271 BIGRADIENTS, HANKEL DETERMINANTS, AND THE PADE TABLE
0 11 6 19272 SEARCH PROCEDURES FOR POLYNOMIAL EQUATION SOLVING
0 11 6 19273 A METHOD FOR AUTOMATIC SOLUTION OF ALGEBRAIC EQUATIONS
0 11 6 19274 FACTORIZATION OF POLYNOMIALS BY GENERALIZED NEWTON PROCEDURES
0 11 6 19275 THE FUNDAMENTAL THEOREM OF ALGEBRA IN RECURSIVE ANALYSIS
0 11 6 19276 DECOMPOSITION OF BOOLEAN FUNCTIONS. PROPERTIES RELATIVE TO THE INTERMEDIATE FUNCTION
0 11 6 19277 NUMERICAL CALCULATION OF ELLIPTIC INTEGRALS AND ELLIPTIC FUNCTIONS. III
0 11 7 19356 NUMERICAL METHOD FOR TRANSIENT RESPONSES OF LINEAR NETWORKS WITH LUMPED, DISTRIBUTED OR MIXED PARAMETERS.
0 11 7 19438 NOTE ON THE COMPUTATION OF JACOBI'S NOME AND ITS INVERSE.
0 11 8 19633 RECURSIVE COMPUTATION OF CERTAIN DERIVATIVES - A STUDY OF ERROR PROPAGATION.
0 11 8 19639 A PARTIAL CHARACTERIZATION OF POISED HERMITE-BIRKHOFF INTERPOLATION PROBLEMS
0 11 8 19664 AN ALGORITHM FOR IN-SITU PERMUTATION.
0 11 8 19672 RANK ORDER PROBABILITIES: TWO-SAMPLE NORMAL SHIFT ALTERNATIVES.
0 11 10 19948 NUMERICAL APPROXIMATION TO FUNCTIONS AND DATA.
0 11 10 19949 INVESTIGATIONS ON THE FOURIER-CHEBYSHEV APPROXIMATION OF INTEGRAL FUNCTIONS.
0 11 10 19957 ON NIELSEN'S GENERALIZED POLYLOGARITHMS AND THEIR NUMERICAL CALCULATION.
0 11 10 19958 GENERAL CONSIDERATIONS.
0 11 10 19963 ESTIMATION OF LINEAR FUNCTIONALS ON SOBOLEV SPACES WITH APPLICATION TO FOURIER TRANSFORMS AND SPLINE INTERPOLATION.
0 11 10 19981 A THREE-STAGE VARIABLE-SHIFT ITERATION FOR POLYNOMIAL ZEROS AND ITS RELATION TO GENERALIZED RAYLEIGH ITERATION.
0 11 10 20006 A NEW METHOD FOR THE OPTIMIZATION OF A NONLINEAR FUNCTION SUBJECT TO NONLINEAR CONSTRAINTS.

5.13 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - INTERPOLATION, FUNCTIONAL APPROXIMATION

0 0 0 198 AN INTRODUCTION TO THE APPROXIMATION OF FUNCTIONS.
0 11 1 18291 THE METHOD OF RITZ AND SPLINE INTERPOLATION IN STURM-LIOUVILLE EIGENVALUE PROBLEMS
0 11 1 18292 ON THE ORDER OF CONVERGENCE OF NATURAL CUBIC SPLINE INTERPOLATION
0 11 1 18293 ERROR BOUNDS FOR PERIODIC QUINTIC SPLINES
0 11 2 18512 EXPONENTIAL SPLINE INTERPOLATION
0 11 2 18529 COMPUTER GENERATION OF SERIES AND RATIONAL FUNCTION SOLUTIONS TO PARTIAL DIFFERENTIAL INITIAL VALUE PROBLEMS
0 11 3 18695 APPROXIMATE SEARCH FOR FIXED POINTS
0 11 3 18696 UNIFORM APPROXIMATION OF VECTOR-VALUED FUNCTIONS
0 11 4 18891 LECTURES ON NUMERICAL METHODS
0 11 4 18892 INTRODUCTION TO NUMERICAL METHODS
0 11 4 18895 SOME APPROXIMATE METHODS OF THE GALERKIN TYPE AND COMBINED TYPE
0 11 4 18896 ON THE DOWNHILL METHOD
0 11 4 18900 THE USE OF PRE-CONDITIONING IN ITERATIVE METHODS FOR SOLVING LINEAR EQUATIONS WITH SYMMETRIC POSITIVE DEFINITE MATRICES
0 11 4 18902 THE BASIC FORMS OF ERROR ANALYSIS OF MATRIX PROCESSES
0 11 4 18907 NEVILLE'S AND ROMBERG'S PROCESSES: A FRESH APPRAISAL WITH EXTENSIONS
0 11 5 19101 SELF-CONTAINED EXPONENTIATION
0 11 5 19102 A PROPOSED HYBRID-COMPUTER METHOD FOR FUNCTIONAL OPTIMIZATION
0 11 5 19103 COMMENTS ON 'SOME ITERATIONS FOR FACTORING A POLYNOMIAL.'
0 11 5 19104 SOME ITERATIONS FOR FACTORING A POLYNOMIAL
0 11 5 19108 EIGENVALUES OF CITED FUNCTION WITH BAND SYMMETRIC A AND B
0 11 5 19116 COLLOCATION AS A PROJECTION METHOD FOR SOLVING INTEGRAL AND OTHER OPERATOR EQUATIONS
0 11 6 19270 UNIFORMLY CONVERGENT ALGORITHMS FOR THE SIMULTANEOUS APPROXIMATION OF ALL ZEROS OF A POLYNOMIAL
0 11 6 19271 BIGRADIENTS, HANKEL DETERMINANTS, AND THE PADE TABLE
0 11 6 19278 APPROXIMATION BY FUNCTIONS HAVING RESTRICTED RANGES: EQUALITY CASE
0 11 7 19356 NUMERICAL METHOD FOR TRANSIENT RESPONSES OF LINEAR NETWORKS WITH LUMPED, DISTRIBUTED OR MIXED PARAMETERS.
0 11 7 19447 A BRACKETING TECHNIQUE FOR COMPUTING A ZERO OF A FUNCTION.
0 11 7 19456 THE TAU METHOD.
0 11 8 19632 CONVERGENCE PROPERTIES OF DISCRETE ANALOGS OF ORTHOGONAL POLYNOMIALS.
0 11 8 19635 APPROXIMATION.
0 11 8 19641 UNIQUENESS IN THE UNIFORM APPROXIMATION OF A FUNCTION AND ITS DERIVATIVES.
0 11 8 19642 L2-APPROXIMATION THEORY OF EVEN ORDER MULTIVARIATE SPLINES.
0 11 8 19645 SOLUTION OF NONLINEAR EQUATIONS BY ITERATIVE PROCEDURES WHICH USE APPROXIMATION TECHNIQUES.
0 11 9 19810 L-MULTIVARIATE APPROXIMATION THEORY.
0 11 9 19812 THE LOCAL DEPENDENCE OF LEAST SQUARES CUBIC SPLINES.
0 11 9 19816 NUMERICAL APPLICATIONS OF CUBIC SPLINE FUNCTIONS.
0 11 9 19817 NUMERICAL APPLICATIONS OF HYPERBOLIC SPLINE FUNCTIONS.
0 11 9 19818 NUMERICAL APPLICATIONS OF DAMPED CUBIC SPLINE FUNCTIONS.
0 11 9 19819 GENERALIZATION OF SEGMENTED SPLINE FITTING OF THIRD ORDER.
0 11 10 19948 NUMERICAL APPROXIMATION TO FUNCTIONS AND DATA.
0 11 10 19949 INVESTIGATIONS ON THE FOURIER-CHEBYSHEV APPROXIMATION OF INTEGRAL FUNCTIONS.

70 11 10 19951 INTRODUCTION.
70 11 10 19956 THE POLYNOMIAL AND RATIONAL APPROXIMATION OF A FUNCTION OF ONE VARIABLE.
70 11 10 19965 A METHOD FOR IMPROVING THE CONVERGENCE OF CHEBYSHEV SERIES.
70 11 10 19966 ON THE CONVERGENCE IN MEASURE OF NON-LINEAR CHEBYSHEV APPROXIMATIONS.
70 11 10 19967 PADE APPROXIMATIONS TO THE OPERATOR EXPONENTIAL.
70 11 10 19996 COMBINATIONAL ARITHMETIC SYSTEMS FOR THE APPROXIMATION OF FUNCTIONS.
70 11 11 20154 A MULTICOMPONENT EXPONENTIAL DATA INTERACTIVE COMPUTER SYSTEM.
70 11 11 20155 THE APPROXIMATION OF A FUNCTION OF ONE VARIABLE BY CUBIC FUNCTIONS.
70 11 11 20156 CURVE FITTING BY POLYNOMIALS IN ONE VARIABLE.
70 11 11 20157 CURVE FITTING BY SPLINES IN ONE VARIABLE.
70 11 11 20158 AN AUTOMATIC CURVE-FITTING PACKAGE.

5.14 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - LINEAR ALGEBRA

70 0 0 7 BIPROPORTIONAL MATRICES AND INPUT-OUT-PUT CHANGE.
70 0 0 24 MATRIX METHODS--AN INTRODUCTION.
70 0 0 102 A COLLECTION OF MATRICES FOR TESTING COMPUTATIONAL ALGORITHMS.
78 0 0 174 LINEAR ALGEBRA AND MATRIX THEORY (2D ED)
70 0 0 191 MODERN ALGEBRA AND THE THEORY OF GRAPHS. (ALGEBRE MODERNE ET
70 0 0 192 MODERN ALGEBRA AND THE THEORY OF GRAPHS. (2D ED) (ALGEBRE
70 0 0 206 PL I FOR PROGRAMMERS.
THEORIE DES GRAPHES(
MODERNE ET THEORIE DES GRAPHES (2D ED))
70 11 1 18232 A VECTOR FIELD APPROACH TO CLUSTER ANALYSIS
70 11 1 18294 REMARK ON A PAPER BY MARSHALL AND OLKIN
78 11 1 18295 LINEAR MODULAR SYSTEMS
70 11 1 18296 LINEAR TIME-INVARIANT SYSTEMS
70 11 1 18297 COMPUTING THE MAXIMAL EIGENVALUE AND EIGENVECTOR OF A POSITIVE MATRIX
70 11 1 18298 COMPUTING THE MAXIMAL EIGENVALUE AND EIGENVECTOR OF A NONNEGATIVE IRREDUCIBLE MATRIX
70 11 1 18299 LARGE-SCALE LINEAR SYSTEMS
70 11 1 18307 ITERATIVE SOLUTION OF IMPLICIT APPROXIMATIONS OF MULTIDIMENSIONAL PARTIAL DIFFERENTIAL EQUATIONS
70 11 1 18336 ACCELERATING LP ALGORITHMS
70 11 2 18401 SIMULATION OF A SAMPLE-AVERAGE FILTER
70 11 2 18513 NONNORMALITY AND JORDAN CONDITION NUMBERS AND MATRICES
70 11 2 18514 DIAGONALISATION OF COMPLEX SYMMETRIC MATRICES USING A MODIFIED JACOBI METHOD
70 11 2 18515 REDUCING THE BANDWIDTH OF SPARSE SYMMETRIC MATRICES
70 11 2 18516 THE CROUT REDUCTION FOR SPARSE MATRICES
70 11 2 18517 ON THE ROW SUM CRITERION AND THE CONVERGENCE OF SOME ITERATIVE PROCESSES
70 11 2 18518 AN EVALUATION OF LINEAR LEAST SQUARES COMPUTER PROGRAMS
70 11 2 18519 BALANCING A MATRIX FOR CALCULATION OF EIGENVALUES AND EIGENVECTORS
70 11 3 18675 ORGANIZING MATRICES AND MATRIX OPERATIONS FOR PAGED MEMORY SYSTEMS
70 11 3 18697 LINEAR ALGEBRA OF ECONOMICS
70 11 3 18698 GENERALIZATION OF WARSHALL'S ALGORITHM
70 11 3 18699 AN EXTENSION OF OLVER'S ERROR ESTIMATION TECHNIQUE FOR LINEAR RECURRENCE RELATIONS
70 11 3 18700 ON COMPARATIVELY STABLE TRIDIAGONALIZATION METHODS
70 11 3 18701 ACCELERATING THE ORTHOGONAL ITERATION FOR THE EIGENVECTORS OF A HERMITIAN MATRIX
70 11 3 18702 AN ALGORITHM FOR SOLVING A SPECIAL CLASS OF TRIDIAGONAL SYSTEMS OF LINEAR EQUATIONS
70 11 3 18707 MATRIX TRANSFORMATION METHOD OF APPROXIMATE SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
70 11 3 18731 REPRESENTATIONS OF COMPLEX-VALUED VECTOR PROCESSES AND THEIR APPLICATION TO ESTIMATION AND DETECTION
70 11 4 18892 INTRODUCTION TO NUMERICAL METHODS
70 11 4 18895 SOME APPROXIMATE METHODS OF THE GALERKIN TYPE AND COMBINED TYPE
70 11 4 18897 COMPUTER PROGRAM FOR DIMENSIONAL ANALYSIS
70 11 4 18898 THE NUMERICAL SOLUTION OF A*Q+QA=-C
70 11 4 18899 A NOTE ON A PERTURBATION THEOREM FOR THE MATRIX EIGENVALUE PROBLEM
70 11 4 18900 THE USE OF PRE-CONDITIONING IN ITERATIVE METHODS FOR SOLVING LINEAR EQUATIONS WITH SYMMETRIC POSITIVE DEFINITE MATRICES
70 11 4 18901 SOME ASPECTS OF SCALING INVARIANCE
70 11 4 18902 THE BASIC FORMS OF ERROR ANALYSIS OF MATRIX PROCESSES
70 11 4 18903 AN ALGORITHM FOR SOLVING LINEAR ALGEBRAIC EQUATIONS USING RESIDUE ARITHMETIC I
70 11 4 18905 SOME APPLICATIONS OF MULTIPARAMETER EIGENVALUE PROBLEMS
70 11 4 18907 NEVILLE'S AND ROMBERG'S PROCESSES: A FRESH APPRAISAL WITH EXTENSIONS
70 11 4 18914 AN APPROXIMATE FACTORIZATION PROCEDURE FOR SOLVING SELF-ADJOINT ELLIPTIC DIFFERENCE EQUATIONS
70 11 5 18997 GENERALIZED CONSISTENT ORDERING AND THE OPTIMUM SUCCESSIVE OVER-RELAXATION FACTOR
70 11 5 19105 A DYNAMIC COMPONENT SUPPRESSION ALGORITHM FOR THE ACCELERATION OF VECTOR SEQUENCES
70 11 5 19106 A GENERALISATION OF SYSTEMATIC RELAXATION METHODS FOR CONSISTENTLY ORDERED MATRICES
70 11 5 19107 AN ALGORITHM FOR A FAST HADAMARD MATRIX TRANSFORM OF ORDER TWELVE
70 11 5 19108 EIGENVALUES OF CITED FUNCTION WITH BAND SYMMETRIC A AND B
70 11 6 19279 EVERY SEMIALGEBRAIC SET IS A FINITE UNION OF DISJOINT LINEAR SETS
70 11 6 19280 SYMBOLIC GENERATION OF AN OPTIMAL CROUT ALGORITHM FOR SPARSE SYSTEMS OF LINEAR EQUATIONS
70 11 7 19463 SOME COMPUTATIONAL PROBLEMS AND METHODS RELATED TO INVARIANT FACTORS AND CONTROL THEORY.
70 11 8 19664 AN ALGORITHM FOR IN-SITU PERMUTATION.
70 11 8 19669 AN ERROR ANALYSIS OF SOLUTIONS TO SPARSE LINEAR PROGRAMMING PROBLEMS.
70 11 9 19813 THE EVALUATION OF EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRICES BY SIMULTANEOUS ITERATION.
70 11 10 19908 ALGORITHMS OVER PARTIALLY ORDERED SETS.
70 11 10 19925 SOME COMPLETE CALCULI FOR MATRICES.
70 11 10 19961 A GENERALIZATION OF THE FAST FOURIER TRANSFORM.
70 11 10 19968 INTRODUCTION TO MATRIX ANALYSIS.
70 11 10 19969 ON MATRICES WITH A CHECKERBOARD SIGN DISTRIBUTION.
70 11 10 19970 ON THE ROW SUM CRITERION.
70 11 10 19971 THE QR ALGORITHM FOR REAL HESSENBERG MATRICES.
70 11 10 19973 SOLVING LINEAR EQUATIONS USING RESIDUE ARITHMETIC-ALGORITHM II.
70 11 10 19975 ZIEBUR, A. D.
70 11 10 19976 ENCLOSING THE EIGENVALUES OF COMPLETELY CONTINUOUS POSITIVE OPERATORS IN SEPARABLE HILBERT SPACES.
70 11 10 19995 THE USE OF MULTIPLE DEFLATIONS IN THE NUMERICAL SOLUTION OF SINGULAR SYSTEMS OF EQUATIONS, WITH APPLICATIONS TO POTENTIAL THEORY.

70 11 10 20008 ON ESTIMATING BEST APPROXIMATIONS OF FUNCTIONS DEFINED BY DIFFERENTIAL EQUATIONS.
70 11 10 20010 MATRIX DECOMPOSITIONS AND STATISTICAL CALCULATIONS.
70 11 11 20159 A MATRIX INEQUALITY.
70 11 11 20160 GERSCHGORIN-TYPE TEOREMS FOR PARTITIONED MATRICES.
70 11 11 20161 CONDITION NUMBERS AND EQUILIBRATION OF MATRICES.
70 11 11 20162 PROPERTIES OF A MATRIX WITH A VERY ILL-CONDITIONED EIGFNPROBLEM.
70 11 11 20166 ON THE BAUER'S SCALED CONDITION NUMBER OF MATRICES ARISING FROM APPROXIMATE CONFORMAL MAPPING.

5.15 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - NONLINEAR AND FUNCTIONAL EQUATIONS

70 11 1 18327 ORGANIZATION OF LARGE SCALE FOURIER PROCESSORS
70 11 2 18520 SPECTRAL PROPERTIES OF A POLYNOMIAL OPERATOR
70 11 2 18521 A UNIFIED CONVERGENCE THEORY FOR A CLASS OF ITERATIVE PROCESSES
70 11 3 18703 ON HIGH-ORDER NUMERICAL METHODS FOR NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 3 18704 A METHOD FOR FINDING THE ROOTS OF A POLYNOMIAL
70 11 3 18730 LEAST SQUARE METHODS IN DATA ANALYSIS
70 11 4 18891 LECTURES ON NUMERICAL METHODS
70 11 4 18904 A SYSTEM FOR TESTING ITERATIVE METHODS FOR SOLVING NON-LINEAR EQUATIONS
70 11 4 18905 SOME APPLICATIONS OF MULTIPARAMETER EIGENVALUE PROBLEMS
70 11 4 18912 NUMERICAL SOLUTION OF THE BOUNDARY LAYER EQUATIONS WITH SLIP BOUNDARY CONDITIONS, PART I
70 11 4 18915 SOLUTION OF A CERTAIN CLASS OF NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 5 19116 COLLOCATION AS A PROJECTION METHOD FOR SOLVING INTEGRAL AND OTHER OPERATOR EQUATIONS
70 11 7 19440 ON AN ALGORITHM FOR NONLINEAR MINIMAX APPROXIMATION.
70 11 7 19446 A PERTURBATION TECHNIQUE FOR NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS.
70 11 7 19448 ABLEITUNGSFREIE VERFAHREN OHNE AUFLOESUNG LINEARER GLEICHUNGEN.
70 11 7 19451 ON A MODIFICATION OF THE CLENSHAW-CURTIS QUADRATURE FORMULA.
70 11 7 19452 ON DAVIS'S METHOD FOR THE ESTIMATION OF ERRORS OF GAUSS-CHEBYSHEV QUADRATURES.
70 11 7 19453 GENERALIZED ROMBERG METHODS FOR INTEGRALS OF DERIVATIVES.
70 11 7 19454 A COMPARISON OF ERROR IMPROVEMENT FOR ADAPTIVE TRAPEZOID INTEGRATION.
70 11 7 19502 THE ANGULAR DISTORTIONS OF A WIDE-ANGLE VIRTUAL IMAGE OPTICAL SYSTEM.
70 11 8 19638 ON THE THEORY OF NONLINEAR CHEBYSCHEV-APPROXIMATION WITH CONSTRAINTS.
70 11 8 19647 ON THE KANTOROVICH HYPOTHESIS FOR NEWTON'S METHOD.
70 11 9 19815 A QUADRATICALLY CONVERGENT NEWTON-LIKE METHOD BASED UPON GAUSSIAN ELIMINATION.
70 11 10 19978 THE WEAK NEWTON METHOD AND BOUNDARY VALUE PROBLEMS.
70 11 10 19980 A SURVEY OF NUMERICAL METHODS FOR UNCONSTRAINED OPTIMIZATION.
70 11 10 19987 DISCRETE, NONLINEAR STRING VIBRATIONS.
70 11 10 20005 AN ALGORITHM FOR SOLVING NONLINEAR PROGRAMMING PROBLEMS SUBJECT TO NONLINEAR INEQUALITY CONSTRAINTS.
70 11 10 20009 AN ACCELERATED GRADIENT PROJECTION METHOD FOR LINEARLY CONSTRAINED NONLINEAR ESTIMATION.
70 11 11 20165 THE RALEIGH-RITZ PROCESS FOR THE SIMPLEST PROBLEM IN THE CALCULUS OF VARIATIONS.
70 11 11 20203 THE POTENTIAL METHOD FOR CONDITIONAL MAXIMA IN THE LOCALLY COMPACT METRIC SPACES.

5.16 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - NUMERICAL INTEGRATION + DIFFERENTIATION

70 11 1 18300 CYCLIC COMPOSITE MULTISTEP PREDICTOR-CORRECTOR METHODS
70 11 1 18301 A NEW LOOK AT THE NUMERICAL INTEGRATION OF ORDINARY DIFFERENTIAL EQUATIONS
70 11 1 18310 THE INVARIANT IMBEDDING NUMERICAL METHOD FOR FREDHOLM INTEGRAL EQUATIONS WITH DISPLACEMENT KERNELS
70 11 1 18311 FAST DRAWING OF CURVES FOR COMPUTER DISPLAY
70 11 1 18327 ORGANIZATION OF LARGE SCALE FOURIER PROCESSORS
70 11 2 18511 NOTES ON THE ADAPTIVE SIMPSON QUADRATURE ROUTINE
70 11 2 18522 ERROR ESTIMATION IN THE CLENSHAW-CURTIS QUADRATURE FORMULA
70 11 2 18523 THE EVALUATION OF DEFINITE INTEGRALS BY INTERVAL SUBDIVISION
70 11 2 18524 ON THE NATURE OF CERTAIN QUADRATURE FORMULAS AND THEIR ERRORS
70 11 3 18705 ASYMPTOTIC PROPERTIES OF MINIMUM NORM AND OPTIMAL QUADRATURES
70 11 3 18706 MONTE CARLO METHODS AND LINEAR BOUNDARY VALUE PROBLEMS
70 11 3 18707 MATRIX TRANSFORMATION METHOD OF APPROXIMATE SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
70 11 3 18710 A NUMERICAL METHOD FOR THE EXTERIOR NEUMANN PROBLEM FOR THE REDUCED WAVE EQUATION
70 11 4 18891 LECTURES ON NUMERICAL METHODS
70 11 4 18892 INTRODUCTION TO NUMERICAL METHODS
70 11 4 18905 ROMBERG'S METHOD IN NUMERICAL QUADRATURE
70 11 4 18907 NEVILLE'S AND ROMBERG'S PROCESSES: A FRESH APPRAISAL WITH EXTENSIONS
70 11 4 18908 ELEMENTARY INDEFINITE INTEGRATION THEORY FOR THE COMPUTER
70 11 4 18909 NUMERICAL INTEGRATION OVER ANY NUMBER OF EQUAL INTERVALS
70 11 4 18910 PROBLEMS OF OPTIMIZATION AND NUMERICAL STABILITY IN COMPUTATIONS
70 11 5 19109 A CRITERION FOR A (CITED FUNCTION) - STABILITY OF LINEAR MULTISTEP METHODS
70 11 5 19116 COLLOCATION AS A PROJECTION METHOD FOR SOLVING INTEGRAL AND OTHER OPERATOR EQUATIONS
70 11 6 19266 FOURIER ANALYSIS BY THE METHOD OF SELECTED ORDINATES
70 11 7 19457 AL ALGORITHM FOR INITIAL VALUE PROBLEMS.
0 11 7 19460 SUFFICIENT CONDITIONS FOR THE STABILITY OF NUMERICAL INTEGRATION METHODS.
70 11 8 19649 INTEGRATION FORMULAS AND ORTHOGONAL POLYNOMIALS FOR TWO VARIABLES.
70 11 8 19650 ESTIMATION OF ERRORS OF GAUSS-CHEBYSHEV QUADRATURES.
70 11 8 19656 NUMERICAL SOLUTION OF TRICOMI EQUATION USING THEORY OF SYMMETRIC POSITIVE DIFFERENTIAL EQUATIONS.
70 11 9 19840 REPRESENTATION OF RANDOM PROCESSES USING THE FINITE KARHUNEN-LOEVE EXPANSION.
70 11 9 19857 IMPACT PROBLEMS EFFICIENTLY SOLVED WITH 1130 CSMP.
70 11 10 19982 COMPARISON OF SEVERAL ADAPTIVE NEWTON-COTES QUADRATURE ROUTINES IN EVALUATING DEFINITE INTEGRALS WITH PEAKED INTEGRANDS.
70 11 10 19983 NECESSARY AND SUFFICIENT CONDITIONS FOR EQUIDISTANT QUADRATURE FORMULA.
70 11 10 19985 ALTERNATING DIRECTION METHODS FOR PARABOLIC EQUATIONS IN TWO SPACE DIMENSIONS WITH A MIXED DERIVATIVE.
70 11 10 20021 AN EXTENDED RESOLUTION DIGITAL DIFFERENTIAL ANALYZER: A NEW COMPUTING STRUCTURE FOR SOLVING DIFFERENTIAL EQUATIONS.
70 11 11 20167 ON EQUAL AND ALMOST EQUAL WEIGHT QUADRATURE FORMULAS.
70 11 11 20169 MULTIDIMENSIONAL ROMBERG INTEGRATION.
70 11 11 20170 NEWTON-COTES FORMULAE IN N-DIMENSIONS.
70 11 11 20172 INTEGRATION FORMULAS AND ORTHOGONAL POLYNOMIALS. II.

5.17 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - ORDINARY + PARTIAL DIFFERENTIAL EQUAT.

70 11 1 18291 THE METHOD OF RITZ AND SPLINE INTERPOLATION IN STURM-LIOUVILLE BOUNDARY VALUE PROBLEMS
70 11 1 18302 CUBIC SPLINE SOLUTIONS TO TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 1 18303 THE USE OF CUBIC SPLINES IN THE SOLUTION OF TWO-POINT BOUNDARY
70 11 1 18304 ON THE NUMERICAL SOLUTION OF HIGHER ORDER NONLINEAR PARABOLIC EQUATIONS
70 11 1 18305 CONVERGENCE OF DIFFERENCE APPROXIMATIONS TO INITIAL-VALUE PROBLEMS
70 11 1 18306 DISCRETE ANALOGUES OF THE DIRICHLET PROBLEM WITH ISOLATED SINGULARITIES
70 11 1 18307 ITERATIVE SOLUTION OF IMPLICIT APPROXIMATIONS OF MULTIDIMENSIONAL PARTIAL DIFFERENTIAL EQUATIONS
70 11 1 18308 OPTIMAL N-LINE SUCCESSIVE OVER RELAXATION
70 11 2 18401 SIMULATION OF A SAMPLE-AVERAGE FILTER
70 11 2 18491 A SLANG SIMULATION OF THE PROPAGATION OF AN INITIALLY STRONG SHOCK WAVE DOWNSTREAM OF AN INFINITE AREA CHANGE
70 11 2 18517 ON THE ROW SUM CRITERION AND THE CONVERGENCE OF SOME ITERATIVE PROCESSES
70 11 2 18521 A UNIFIED CONVERGENCE THEORY FOR A CLASS OF ITERATIVE PROCESSES
70 11 2 18525 NUMERICAL SOLUTION OF FIELD PROBLEMS IN EMBOUNDED DOMAINS
70 11 2 18526 ON THE CONVERGENCE OF DIFFERENCE APPROXIMATIONS TO WEAK SOLUTIONS OF DIRICHLET'S PROBLEM
70 11 2 18527 THE USE OF CONTINUOUS SIMULATION IN ESTIMATING PARAMETERS IN SYSTEMS OF DIFFERENTIAL EQUATIONS
70 11 2 18528 PERTURBATION OF DIFFERENCE SCHEMES
70 11 2 18529 COMPUTER GENERATION OF SERIES AND RATIONAL FUNCTION SOLUTIONS TO PARTIAL DIFFERENTIAL INITIAL VALUE PROBLEMS
70 11 3 18703 ON HIGH-ORDER NUMERICAL METHODS FOR NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 3 18708 APPLICATIONS OF LAPLACE TRANSFORMS OF MATRIX FUNCTIONS
70 11 3 18709 ERROR BOUNDS AND VARIATIONAL METHODS FOR NONLINEAR BOUNDARY VALUE PROBLEMS
70 11 3 18710 A NUMERICAL METHOD FOR THE EXTERIOR NEUMANN PROBLEM FOR THE REDUCED WAVE EQUATION
70 11 3 18711 AN ANALOG COMPUTER METHOD FOR EIGENVECTOR ANALYSIS
70 11 4 18780 MUONIC-MOLECULE CALCULATIONS BY VARIATION OF FUNCTIONS
70 11 4 18783 A METHOD FOR INCLUDING ARBITRARY EXTERNAL BOUNDARIES IN THE MAC INCOMPRESSIBLE FLUID COMPUTING TECHNIQUE
70 11 4 18891 LECTURES ON NUMERICAL METHODS
70 11 4 18894 MULTIPLIER AND GRADIENT METHODS
70 11 4 18905 SOME APPLICATIONS OF MULTIPARAMETER EIGENVALUE PROBLEMS
70 11 4 18911 METHODS FOR THE NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS
70 11 4 18912 NUMERICAL SOLUTION OF THE BOUNDARY LAYER EQUATIONS WITH SLIP BOUNDARY CONDITIONS, PART I
70 11 4 18913 BOUNDEDNESS THEOREMS AND OTHER MATHEMATICAL STUDIES OF A HODGKIN-HUXLEY TYPE SYSTEM OF DIFFERENTIAL EQUATIONS: NUMERICAL TREATMENT OF THRESHOLDS AND STATIONARY VALUES
70 11 4 18914 AN APPROXIMATE FACTORIZATION PROCEDURE FOR SOLVING SELF-ADJOINT ELLIPTIC DIFFERENCE EQUATIONS
70 11 4 18915 SOLUTION OF A CERTAIN CLASS OF NONLINEAR TWO-POINT BOUNDARY VALUE PROBLEMS
70 11 4 18916 THE SOLUTION OF A SYSTEM OF LINEAR DIFFERENTIAL EQUATIONS BY THE ALTERNATING METHOD
70 11 4 18917 A NOTE ON CORRECTORS WITH AN ARBITRARY NUMBER OF NONSTOP POINTS
70 11 5 19083 THE Q APPROACH TO PROBLEM SOLVING
70 11 5 19110 APPROXIMATION OF BESSEL'S DIFFERENTIAL OPERATOR OF FRACTIONAL ORDER BY FINITE-DIFFERENCE OPERATORS
70 11 5 19111 ON A CONVERGENT ACCELERATING ITERATIVE PROCESS FOR LINEAR SYSTEMS OF EQUATIONS IN THE CASE OF DIVERGENCE FROM THE CLASSICAL METHODS AND UNDER SPECIAL CONSIDERATION OF BOUNDARY VALUE PROBLEMS
70 11 5 19112 ON SOME FINITE ELEMENT PROCEDURES FOR SOLVING SECOND ORDER BOUNDARY VALUE PROBLEMS
70 11 5 19113 CLASSICAL FIFTH-, SIXTH-, SEVENTH-, AND EIGHTH-ORDER RUNGE-KUTTA FORMULAS WITH STEPSIZE CONTROL
70 11 5 19114 PROGRAMMING THE TILLOTSON EQUATION OF STATE ON ILLIAC IV
70 11 5 19115 A CLASS OF A-STABLE METHODS
70 11 6 19281 NUMERICAL TREATMENT OF SINGULAR STURM-LIOUVILLE PROBLEMS
70 11 6 19282 AN INVESTIGATION OF OPTIMALLY STABLE NUMERICAL INTEGRATION METHODS WITH APPLICATION TO REAL TIME SIMULATION
70 11 7 19351 ONE-DIMENSIONAL WAVE PROPAGATION THROUGH NONLINEAR MEDIA.
70 11 7 19354 AN ERROR BOUND FOR CAPACITANCE CALCULATIONS.
70 11 7 19443 NESTED BOUNDS FOR THE SPECTRAL RADIUS.
70 11 7 19444 PROPERTIES OF SOME TRIDIAGONAL MATRICES AND THEIR APPLICATION TO BOUNDARY VALUE PROBLEMS.
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70 11 7 19459 ON DIFFERENCE APPROXIMATIONS TO HYPERBOLIC DIFFERENTIAL EQUATIONS OVER LONG TIME INTERVALS.
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70 11 7 19462 ON THE DIRECT SOLUTION OF DIRICHLET'S PROBLEM IN TWO DIMENSIONS.
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70 11 8 19540 HELICOPTER FUSELAGE VIBRATION ANALYSIS IN THREE DIMENSIONS USING COMPUTER GRAPHICS.
70 11 8 19631 THE SOLUTION IN CHEBYSHEV SERIES OF SYSTEMS OF LINEAR DIFFERENTIAL EQUATIONS WITH GENERAL BOUNDARY CONDITIONS.
70 11 8 19634 ERROR BOUNDS FOR STURM-LIOUVILLE EIGENVALUE APPROXIMATIONS BY SEVERAL PIECEWISE CUBIC RAYLEIGH-RITZ METHODS.
70 11 8 19640 SOME EXTENSIONS OF A PAPER BY BIRKHOFF AND PRIVER.
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70 11 8 19653 NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS.
70 11 8 19654 ON THE SOLUTIONS OF THE WAVE EQUATION IN ONE SPACE DIMENSION UNDER DERIVATIVE BOUNDARY CONDITIONS.
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70 11 8 19657 STABILITY THEORY FOR PARTIAL DIFFERENCE OPERATORS.
70 11 9 19720 MASS TRANSFER TO FLUIDS IN LAMINAR PIPE FLOW.
70 11 9 19809 FORTRAN PROGRAM FOR SPLINE FIT CURVE.
70 11 9 19820 NUMERICAL SOLUTION OF FIRST-ORDER HYPERBOLIC SYSTEMS OF PARTIAL DIFFERENTIAL EQUATIONS.
70 11 9 19821 NUMERICAL TREATMENT OF BIHARMONIC BOUNDARY VALUE PROBLEMS WITH RE-ENTRANT BOUNDARIES.
70 11 9 19822 ON STABLE CORRECTORS.
70 11 9 19824 APPLICATION OF THE METHOD OF LINES TO PARABOLIC PARTIAL DIFFERENTIAL EQUATIONS WITH ERROR ESTIMATES.

) 11 10 19936 DESIGN AND ORGANIZATION OF A TRANSLATOR FOR A PARTIAL DIFFERENTIAL EQUATION LANGUAGE.
) 11 10 19955 ON THE ACCURACY OF THE ANALOG SOLUTION OF HEAT CONDUCTION PROBLEMS INVOLVING NEWTONIAN COOLING.
) 11 10 19984 ON THE RATE OF CONVERGENCE OF SOME DIFFERENCE SCHEMES FOR SECOND ORDER ELLIPTIC EQUATIONS.
) 11 10 19989 THE NUMERICAL SOLUTION OF PARABOLIC DIFFERENTIAL EQUATIONS USING VARIATIONAL METHODS.
0 11 10 19990 NUMERICAL SOLUTION OF ORDINARY SIMULTANIOUS DIFFERENTIAL EQUATIONS OF THE 1ST ORDER USING A METHOD FOR AUTOMATIC STEP CHANGE.
0 11 10 19992 ON THE CONVERGENCE OF FINITE-DIFFERENCE APPROXIMATIONS TO ONE-DIMENSIONAL SINGULAR BOUNDARY-VALUE PROBLEMS.
0 11 10 19995 THE USE OF MULTIPLE DEFLATIONS IN THE NUMERICAL SOLUTION OF SINGULAR SYSTEMS OF EQUATIONS, WITH APPLICATIONS TO POTENTIAL THEORY.
0 11 11 20171 RATIONAL APPROXIMATIONS BY IMPLICIT RUNGE-KUTTA SCHEMES.
0 11 11 20173 AN APPLICATION OF HOCKNEY'S METHOD FOR SOLVING POISSON'S EQUATION.
0 11 11 20174 A FINITE-DIFFERENCE METHOD FOR DEGENERATE ELLIPTIC-PARABOLIC EQUATIONS.
0 11 11 20175 THE COUPLED EQUATION APPROACH TO THE NUMERICAL SOLUTION OF THE BIHARMONIC EQUATION BY FINITE DIFFERENCES. I.
0 11 11 20176 BOUNDARY VALUE PROBLEMS FOR ORDINARY DIFFERENTIAL EQUATIONS. II: PATCH BASES AND MONOTONE METHODS.
0 11 11 20179 ON SOME HIGH ACCURACY DIFFERENCE SCHEMES FOR SOLVING ELLIPTIC EQUATIONS.
0 11 11 20180 DIFFERENCE SCHEMES FOR LINEAR DIFFUSION EQUATIONS WHICH PRESERVE MASS AND NONNEGATIVITY.
0 11 11 20181 POEL-A LANGUAGE FOR PARTIAL DIFFERENTIAL EQUATIONS.
0 11 11 20183 ON THE APPROXIMATE SOLUTION OF FREE BOUNDARY PROBLEMS USING FINITE DIFFERENCES.

5.18 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - INTEGRAL EQUATIONS

0 11 1 18309 A CLASS OF STOCHASTIC NONLINEAR INTEGRAL EQUATIONS ON LP SPACES AND ITS APPLICATION TO OPTIMAL CONTROL
0 11 1 18310 THE INVARIANT IMBEDDING NUMERICAL METHOD FOR FREDHOLM INTEGRAL EQUATIONS WITH DISPLACEMENT KERNELS
0 11 [illegible] 18521 A UNIFIED CONVERGENCE THEORY FOR A CLASS OF ITERATIVE PROCESSES
0 11 3 18708 APPLICATIONS OF LAPLACE TRANSFORMS OF MATRIX FUNCTIONS
0 11 3 18712 THE INVARIANT IMBEDDING NUMERICAL METHOD FOR FREDHOLM INTEGRAL EQUATIONS WITH DEGENERATE KERNELS
0 11 5 19116 COLLOCATION AS A PROJECTION METHOD FOR SOLVING INTEGRAL AND OTHER OPERATOR EQUATIONS
0 11 6 19277 NUMERICAL CALCULATION OF ELLIPTIC INTEGRALS AND ELLIPTIC FUNCTIONS. III
0 11 6 19283 PROOF OF THE BASIC INVARIANT IMBEDDING METHODS FOR FREDHOLM INTEGRAL EQUATIONS WITH DISPLACEMENT KERNELS
0 11 6 19284 PROOF OF THE BASIC INVARIANT IMBEDDING METHOD FOR FREDHOLM INTEGRAL EQUATIONS WITH DISPLACEMENT KERNELS
0 11 8 19644 ENCLOSING THE EIGENVALUES OF COMPLETELY CONTINUOUS POSITIVE OPERATORS IN SEPARABLE HILBERT SPACES. PART II.
0 11 8 19659 THE NUMERICAL SOLUTION OF THE INTEGRAL EQUATION FORMULATION OF THE SINGLE INTERFACE NEUMANN PROBLEM.
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0 11 10 19949 INVESTIGATIONS ON THE FOURIER-CHEBYSHEV APPROXIMATION OF INTEGRAL FUNCTIONS.
0 11 10 19994 NUMERICAL METHODS FOR VOLTERRA INTEGRAL EQUATIONS OF THE FIRST KIND.
0 11 11 20184 INVERSION OF ABEL'S INTEGRAL EQUATION BY MEANS OF ORTHOGONAL POLYNOMIALS.
0 11 11 20185 THE NUMERICAL SOLUTION OF NONLINEAR VOLTERRA INTEGRAL EQUATIONS.

5.19 MATHEMATICS OF COMPUTATION
NUMERICAL ANALYSIS - MISCELLANEOUS

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0 0 A 215 ELEMENTS OF REAL ANALYSIS
0 11 1 18311 FAST DRAWING OF CURVES FOR COMPUTER DISPLAY
0 11 2 18490 A MATHEMATICAL PROBLEM SOLVING LANGUAGE AND ITS INTERPRETER
0 11 2 18521 A UNIFIED CONVERGENCE THEORY FOR A CLASS OF ITERATIVE PROCESSES
0 11 [illegible] 18556 A FAST RANDOM NUMBER GENERATOR FOR IBM 360
0 11 3 18713 NOTES ON THE RECURRENCE TECHNIQUES FOR THE CALCULATION OF BESSEL FUNCTIONS J(VX) AND IV(X)
0 11 3 18730 LEAST SQUARE METHODS IN DATA ANALYSIS
0 11 4 18786 DIRECTED LIBRARY SEARCH TO MINIMIZE COST
0 11 4 18879 A COMPUTER PROGRAM FOR DOING TEDIOUS ALGEBRA (SYMB66)
0 11 4 18894 MULTIPLIER AND GRADIENT METHODS
0 11 4 18918 THE FAST FOURIER TRANSFORM AND ITS APPLICATION IN NOISE SIGNAL ANALYSIS
0 11 4 18941 A COMPARATIVE STUDY OF FOUR IMPLEMENTATIONS OF A DYNAMIC OPTIMIZATION SCHEME
0 11 [illegible] 19003 AN ALGORITHM FOR CONVEX POLYTOPES
0 11 5 19075 A KALMAN-FILTER TRACKING PROGRAM FOR ILLIAC IV
0 11 5 19105 A DYNAMIC COMPONENT SUPPRESSION ALGORITHM FOR THE ACCELERATION OF VECTOR SEQUENCES
0 11 [illegible] 19133 THE SYMMETRIZATION PROCESS IN THE APPLICATION OF MONTE CARLO TO THE DIRICHLET PROBLEM
0 11 6 19268 A NEVER FAILING, FAST CONVERGENT ROOT-FINDING ALGORITHM
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5.20 MATHEMATICS OF COMPUTATION
METATHEORY - GENERAL

0 11 1 18312 A THEORY OF COMPUTING MACHINES
0 11 1 18312 A THEORY OF PROGRAMMING LANGUAGES
0 11 1 18314 NESTED STACK AUTOMATA
0 11 3 18714 RECURSIVE FUNCTIONS AND SWITCHING-CIRCUIT THEORY
0 11 4 18919 KNOWING AND GUESSING: A QUANTITATIVE STUDY OF INFERENCE AND INFORMATION
0 11 5 19148 SEQUENTIAL DECISION-MAKING DEVICE FOR INFORMATION-PROCESSING APPLICATIONS
0 11 6 19285 ON RECURSIVELY DEFINED GEOMETRICAL OBJECTS AND PATTERNS OF GROWTH
0 11 7 19420 PROGRAMMING BY ACTION CLUSTERS.
0 11 8 19630 LECTURES IN APPLICATIONS-ORIENTED MATHEMATICS.
0 11 10 19930 LYAPAS: A PROGRAMMING LANGUAGE FOR LOGIC AND CODING ALGORITHMS.

5.21 MATHEMATICS OF COMPUTATION
METATHEORY - FORMAL LOGIC

70 0 0 184 GRAMMAR AND LOGIC.
70 11 1 18223 PARAMODULATION AND THEOREM-PROVING IN FIRST-ORDER THEORIES WITH EQUALITY
70 11 1 18313 TOWARD A THEORY OF ENUMERATIONS
70 11 1 18329 RECURSION INDUCTION APPLIED TO GENERALIZED FLOWCHARTS
70 11 1 18349 TRANSFORMATION OF TERNARY SWITCHING FUNCTIONS TO COMPLETELY SYMMETRIC TERNARY SWITCHING FUNCTIONS
70 11 2 18392 CONSTRUCTIVE THERMODYNAMICS
70 11 2 18530 DEDUCTIVE LOGIC AND DESCRIPTIVE LANGUAGE
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70 11 2 18532 THE USE OF 'BROUWER'S PRINCIPLE' IN INTUITIONISTIC TOPOLOGY
70 11 2 18533 EQUATIONAL MAPS
70 11 2 18534 THEOREM-PROVING BY RESOLUTION AS A BASIS FOR QUESTION-ANSWERING SYSTEMS
70 11 2 18535 SOME FORMS OF MODELS OF PROPOSITIONAL CALCULI
70 11 2 18536 REFLECTION PRINCIPLES OF SUBSYSTEMS OF ANALYSIS
70 11 2 18537 SATURATED INTUITIONISTIC THEORIES
70 11 3 18583 LOGIC TUTORS AND THEIR APPLICATIONS
70 11 3 18698 GENERALIZATION OF WARSHALL'S ALGORITHM
70 11 3 18715 A SURVEY OF SOME CONNECTIONS BETWEEN CLASSICAL, INTUITIONISTIC AND MINIMAL LOGIC
70 11 3 18716 ON THE SEMANTICS OF INTUITIONISTIC PROPOSITIONAL LOGIC
70 11 4 18920 TRANSLATING STATEMENTS OF SYMBOLIC LOGIC INTO ZERO-ONE LINEAR PROGRAMMING
70 11 4 18921 NATURAL DEDUCTION WITH FEW RESTRICTIONS ON VARIABLES
70 11 5 19054 A MACHINE-ORIENTING LOGIC INCORPORATING THE EQUALITY RELATION
70 11 5 19117 SIMPLIFICATION OF INCOMPLETELY SPECIFIED FLOW TABLES WITH THE HELP OF PRIME CLOSED SETS
70 11 5 19118 LENGTHS OF FORMULAS AND ELIMINATION OF QUANTIFIERS I
70 11 5 19119 A DECISION PROCEDURE FOR THE WEAK SECOND ORDER THEORY OF LINEAR ORDER
70 11 5 19120 A METHOD FOR THE FAST APPROXIMATE SOLUTION OF LARGE PRIME IMPLICANT CHARTS
70 11 5 19125 REGULAR EXPRESSIONS AND THE EQUIVALENCE OF PROGRAMS
70 11 6 19275 THE FUNDAMENTAL THEOREM OF ALGEBRA IN RECURSIVE ANALYSIS
70 11 6 19279 EVERY SEMILINEAR SET IS A FINITE UNION OF DISJOINT LINEAR SETS
70 11 6 19286 THE CONDITIONS OF THE EXISTENCE FOR THE DIAGNOSTIC TESTS FOR THE COMPLEX SYSTEMS
70 11 6 19287 TOWARD THE COMPUTABILITY OF PRIMITIVE RECURSIVE FUNCTIONALS OF FINITE TYPES
70 11 6 19289 PROPERTIES OF PROGRAMS AND THE FIRST-ORDER PREDICATE CALCULUS
70 11 7 19468 A NOTE ON TOP-DOWN DETERMINISTIC LANGUAGES.
70 11 8 19586 A SIMPLIFIED FORMAT FOR THE MODEL ELIMINATION THEOREM-PROVING PROCEDURE.
70 11 9 19787 GENERAL PROBLEMS OF FORMAL GRAMMARS.
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5.22 MATHEMATICS OF COMPUTATION
METATHEORY - AUTOMATA, TURING MACHINES

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70 0 0 108 LECTURES ON LINEAR SEQUENTIAL MACHINES.
70 11 7 P0417 BIBLIOGRAPHY 23. FORMAL LANGUAGE THEORY AND AUTOMATA THEORY
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70 11 1 18224 THE ORGANIZATION OF INTERACTION IN COLLECTIVES OF AUTOMATA
70 11 1 18225 PLANNING AND GENERALISATION IN AN AUTOMATION ENVIRONMENT SYSTEM
70 11 1 18226 FREDDY IN TOYLAND
70 11 1 18227 SOME PHILOSOPHICAL PROBLEMS FROM THE STANDPOINT OF ARTIFICIAL INTELLIGENCE
70 11 1 18313 TOWARD A THEORY OF ENUMERATIONS
70 11 1 18314 NESTED STACK AUTOMATA
70 11 1 18315 LATTICE FUNCTIONS, PAIR ALGEBRAS, AND FINITE-STATE MACHINES
70 11 1 18316 HALTING STACK AUTOMATA
70 11 1 18317 RANDOM SETS IN SUBRECURSIVE HIERARCHIES
70 11 1 18318 ON THE FORMULATION OF NORMAL PUSHDOWN ACCEPTORS
70 11 1 18319 THE ALGEBRA OF DERIVATIONS AND A SEMITHUE PARSER
70 11 1 18320 REAL-TIME COMPUTATION BY N-DIMENSIONAL ITERATIVE ARRAYS OF FINITE-STATE MACHINES
70 11 1 18321 SCATTERED CONTEXT GRAMMARS
70 11 1 18322 WRITING PUSHDOWN ACCEPTORS
70 11 1 18323 ALGEBRAIC FOUNDATIONS FOR AUTOMATA THEORY
70 11 1 18324 STOCHASTIC AUTOMATA AND DISCRETE SYSTEMS THEORY
70 11 1 18325 SWITCHING NETWORKS AS MODELS OF DISCRETE STOCHASTIC PROCESSES
70 11 1 18326 TRANSFER OF PROPOSITIONS ABOUT AUTOMATA TO CHOMSKY LANGUAGES
70 11 1 18346 STUDIES IN FEEDBACK-SHIFT-REGISTER SYNTHESIS OF SEQUENTIAL MACHINES
70 11 1 18350 UNIFORM MODULAR REALIZATION OF SEQUENTIAL MACHINES
70 11 1 18351 FUNDAMENTALS OF THRESHOLD LOGIC
70 11 2 18538 A CRITERION FOR UNRECOGNIZABILITY
70 11 2 18539 SYNTHESIS OF A TERNARY SEQUENTIAL SYSTEM
70 11 2 18540 SOME RESULTS ON TAPE-BOUNDED TURING MACHINES
70 11 2 18541 ON THE DIAMETER OF REDUCED AUTOMATA
70 11 2 18542 A FORMULATION OF FUZZY AUTOMATA AND ITS APPLICATION AS A MODEL OF LEARNING SYSTEMS
70 11 3 18714 RECURSIVE FUNCTIONS AND SWITCHING-CIRCUIT THEORY
70 11 3 18717 THEORY OF AUTOMATA
70 11 3 18718 THEORIES OF ABSTRACT AUTOMATA
70 11 3 18719 OPERATOR-OPERAND LANGUAGES
70 11 3 18720 ON THE SIMPLICITY AND SPEED OF PROGRAMS FOR COMPUTING INFINITE SETS OF NATURAL NUMBERS
70 11 3 18721 PROPERTIES OF SYNTAX-DIRECTED TRANSLATIONS
70 11 3 18722 A PRACTICAL METHOD FOR CONSTRUCTING LR(K) PROCESSORS
70 11 4 18922 SOME CONSIDERATIONS ON FUZZY AUTOMATA
70 11 4 18923 CONTINUOUS-TIME PROBABILISTIC AUTOMATA
70 11 4 18924 NOTES ON TOP-DOWN LANGUAGES
70 11 4 18925 NORMED SIGNALIZERS FOR TURING COMPUTATIONS
70 11 4 18926 DETERMINATION OF SYSTEMS OF GRAPHS AND THE SYNTHESIS OF FINITE AUTOMATA
70 11 4 18927 THE UNIFORM HALTING PROBLEM FOR GENERALIZED ONE-STATE TURING MACHINES
70 11 4 18928 ON THE LOWER BOUND TO THE MEMORY OF FINITE STATE MACHINES
70 11 5 19078 THE CONSTRUCTION OF EFFICIENT DETERMINISTIC LANGUAGE PROCESSORS
70 11 5 19121 RELATIONSHIPS AMONG DISTINCT MODELS AND NOTIONS OF EQUIVALENCE FOR STOCHASTIC FINITE-STATE SYSTEMS
70 11 5 19122 GENERAL REPETITIVE EVENTS AND MACHINES
70 11 5 19123 A NOTE ON THE COMPLEMENT OF INHERENTLY AMBIGUOUS CONTEXT-FREE LANGUAGES

70 11 5 19124 A THEORETICAL APPROACH TO STRING PATTERN MATCHING
70 11 6 19224 ADVANCES IN CYBERNETICS
70 11 6 19279 EVERY SEMILINEAR SET IS A FINITE UNION OF DISJOINT LINEAR SETS
70 11 6 19288 LINEAR REALIZATIONS FOR PERMUTATION MACHINES
70 11 7 19466 ON AN AUTOMATON WITH BUFFER STORAGE.
70 11 8 19581 THE SYNTAX OF A TRIANGLE AND SOME OTHER FIGURES.
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70 11 9 19832 TERMINATION OF PROGRAMS REPRESENTED AS INTERPRETED GRAPHS.
70 11 10 19903 AN HEURISTIC PROGRAM OF SELF- ORGANIZATION OF A COGNITIVE SYSTEM WITH ACTIVE STRATEGY OF LEARNING.
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70 11 11 20050 SWITCHING AND FINITE AUTOMATA THEORY.
70 11 11 20187 UNIFORMLY REFLEXIVE STRUCTURES: AN AXIOMATIC APPROACH TO COMPUTABILITY.
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5.23 MATHEMATICS OF COMPUTATION METATHEORY - MECHANICAL AND ALGORITHMIC LANGUAGES

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70 11 1 18320 REAL-TIME COMPUTATION BY N-DIMENSIONAL ITERATIVE ARRAYS OF FINITE-STATE MACHINES
70 11 1 18331 A PROOF OF HAMBLIN'S ALGORITHM FOR TRANSLATION OF ARITHMETIC EXPRESSIONS FROM INFIX TO POSTFIX FORMS
70 11 3 18722 A PRACTICAL METHOD FOR CONSTRUCTING LR(K) PROCESSORS
70 11 6 19258 AN EFFICIENT CONTEXT-FREE PARSING ALGORITHM
70 11 7 19465 SUBSTITUTION IN FAMILIES OF LANGUAGES.
70 11 8 19611 A STRUCTURAL VIEW OF PL/I.
70 11 9 19787 GENERAL PROBLEMS OF FORMAL GRAMMARS.
70 11 10 19939 REPORT ON THE ALGORITHMIC LANGUAGE ALGOL 68.
70 11 11 20098 A PARSER FOR A RESTRICTED ARBITRARY PHRASE STRUCTURE GRAMMAR.

5.24 MATHEMATICS OF COMPUTATION METATHEORY - THEORY OF PROGRAMMING

70 11 1 18312 A THEORY OF COMPUTING MACHINES
70 11 1 18312 A THEORY OF PROGRAMMING LANGUAGES
70 11 1 18327 ORGANIZATION OF LARGE SCALE FOURIER PROCESSORS
70 11 1 18328 AN AXIOMATIC BASIS FOR COMPUTER PROGRAMMING
70 11 1 18329 RECURSION INDUCTION APPLIED TO GENERALIZED FLOWCHARTS
70 11 1 18330 PARALLEL PROGRAM SCHEMATA
70 11 1 18331 A PROOF OF HAMBLIN'S ALGORITHM FOR TRANSLATION OF ARITHMETIC EXPRESSIONS FROM INFIX TO POSTFIX FORMS
70 11 2 18547 AN AUTOMATED DESIGN FORMULATION FOR INTEGRATED CIRCUITS
70 11 3 18721 PROPERTIES OF SYNTAX-DIRECTED TRANSLATIONS
70 11 4 18929 FUNDAMENTALS OF FLOWCHARTING
70 11 4 18930 MULTIPLE CONTROL COMPUTER MODELS
70 11 5 19087 COMMENT ON A PAGING ANOMALY
70 11 5 19097 PALINDROMIC PROGRAMMING
70 11 5 19118 LENGTHS OF FORMULAS AND ELIMINATION OF QUANTIFIERS I
70 11 5 19123 A NOTE ON THE COMPLEMENT OF INHERENTLY AMBIGUOUS CONTEXT-FREE LANGUAGES
70 11 5 19124 A THEORETICAL APPROACH TO STRING PATTERN MATCHING
70 11 5 19125 REGULAR EXPRESSIONS AND THE EQUIVALENCE OF PROGRAMS
70 11 6 19226 PROSPECTS FOR THE DEVELOPMENT OF THE PSYCHOCYBERNETICS OF INTELLIGENT BEHAVIOR
70 11 6 19289 PROPERTIES OF PROGRAMS AND THE FIRST-ORDER PREDICATE CALCULUS
70 11 7 19420 PROGRAMMING BY ACTION CLUSTERS.
70 11 7 19432 EQUIPMENT CONFIGURATION IN BALANCED COMPUTER SYSTEMS.
70 11 7 19435 PRACTICAL MODULAR PROGRAMMING.
70 11 7 19470 ON REDUCTION OF PROGRAM SCHEMES.
70 11 9 19787 GENERAL PROBLEMS OF FORMAL GRAMMARS.
70 11 9 19832 TERMINATION OF PROGRAMS REPRESENTED AS INTERPRETED GRAPHS.
70 11 9 19847 A STUDY OF INTERLEAVED MEMORY SYSTEMS.
70 11 10 20001 FLOWCHARTING WITH THE ANSI STANDARD: A TUTORIAL.
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5.29 MATHEMATICS OF COMPUTATION METATHEORY - MISCELLANEOUS

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70 11 4 18844 INFORMATION SCIENCE: TOWARD THE DEVELOPMENT OF A TRUE SCIENTIFIC DISCIPLINE
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5.30 MATHEMATICS OF COMPUTATION COMBINATORIAL AND DISCRETE MATHEMATICS - GENERAL

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70 11 2 18499 AN ANALYSIS OF COMPUTER OPERATIONS UNDER RUNNING TIME PRIORITY DISCIPLINES
70 11 3 18636 ADEPT - A HEURISTIC PROGRAM FOR PROVING THEOREMS OF GROUP THEORY
70 11 4 18931 THE NUMBER OF STRUCTURES IN FINITE RELATION SYSTEMS
70 11 9 19715 SOME CONTRIBUTIONS OF COMPUTATION TO SEMIGROUPS AND GROUPOIDS.
70 11 9 19829 COMPUTATIONAL METHODS IN THE STUDY OF PERMUTATION GROUPS.
70 11 9 19830 SOME COMBINATORIAL AND SYMBOL MANIPULATION PROGRAMS IN GROUP THEORY.
70 11 9 19831 THE COMPUTATION OF IRREDUCIBLE REPRESENTATIONS OF FINITE GROUPS OF ORDER 2N, N<6.
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70 11 10 19930 LYAPAS: A PROGRAMMING LANGUAGE FOR LOGIC AND CODING ALGORITHMS.
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70 11 11 20186 SIMPLIFIED INDEPENDENCE PROOFS: BOOLEAN VALUE MODELS OF SET THEORY.

5.32 MATHEMATICS OF COMPUTATION COMBINATORIAL AND DISCRETE MATHEMATICS - GRAPH THEORY

70 11 1 18245 ASSOCIATIVE MEMORY INVESTIGATIONS: SUBSTRUCTURING SEARCHING AND DATA ORGANIZATIONS
70 11 1 18263 MEASUREMENT-BASED AUTOMATIC ANALYSIS OF FORTRAN PROGRAMS
70 11 1 18332 AN ALGORITHM FOR FINDING A FUNDAMENTAL SET OF CYCLES OF A GRAPH
70 11 2 18543 FUNDAMENTALS AND APPLICATION OF NETWORK ANALYSIS
70 11 2 18544 THE BANDWIDTH OF GRAPHS
70 11 2 18545 PATH LENGTH COMPUTATIONS ON GRAPH MODELS OF COMPUTATIONS
70 11 3 18695 APPROXIMATE SEARCH FOR FIXED POINTS
70 11 3 18723 COMPUTATION OF OPTIMAL PATHS IN FINITE GRAPHS
70 11 3 18724 SOME ALGORITHMS FOR FINDING THE SHORTEST ROUTES THROUGH THE GENERAL NETWORKS
70 11 3 18725 AN INTERACTIVE GRAPH THEORY SYSTEM
70 11 3 18727 OPTIMAL SOLUTION FOR A CLASS OF ASSIGNMENT AND TRANSPORTATION PROBLEMS
70 11 4 18932 THE NATURE OF THE DECISION PROCESSES IMPLIED IN NETWORK ANALYSIS
70 11 4 18933 DISJUNCTIVE PERT NETWORKS: MINIMIZATION OF THE LENGTH OF A CRITICAL PATH
70 11 5 19056 FIGURE EXTRACTION
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70 11 5 19127 AN ALGORITHM FOR FINDING A MINIMUM EQUIVALENT GRAPH OF A DIGRAPH
70 11 6 19210 A MANAGEMENT GUIDE TO PERT-CPM
70 11 6 19212 THE APPLICATION OF PERT
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70 11 1 18347 FUZZY LOGIC AND ITS APPLICATION TO SWITCHING SYSTEMS
70 11 1 18348 SOME AIDS TO THE DETECTION OF HAZARDS IN COMBINATIONAL SWITCHING CIRCUITS
70 11 1 18349 TRANSFORMATION OF TERNARY SWITCHING FUNCTIONS TO COMPLETELY SYMMETRIC TERNARY SWTICHING FUNCTIONS
70 11 1 18350 UNIFORM MODULAR REALIZATION OF SEQUENTIAL MACHINES
70 11 1 18351 FUNDAMENTALS OF THRESHOLD LOGIC
70 11 2 18473 NUMERICAL CONTROL
70 11 2 18482 GENERATION OF OPTIMAL CODE FOR EXPRESSIONS VIA FACTORIZATION
70 11 2 18539 SYNTHESIS OF A TERNARY SEQUENTIAL SYSTEM
70 11 2 18560 DESIGN OF DIAGNOSABLE CONTROL UNITS FOR SWITCHING SYSTEMS USING MODULAR INTEGRATED CIRCUITS
70 11 2 18561 THE BASIS FOR IMPLEMENTATION OF ADDITIVE OPERATIONS IN THE RESIDUE NUMBER SYSTEM
70 11 2 18562 MULTIPLEX LOGIC CIRCUITS
70 11 2 18563 OPTICAL DATA PROCESSING
70 11 2 18564 METHODS USED IN AN AUTOMATIC LOGIC DESIGN GENERATOR (ALERT)
70 11 3 18583 LOGIC TUTORS AND THEIR APPLICATIONS
70 11 3 18741 A THREE-VALUE COMPUTER DESIGN VERIFICATION SYSTEM
70 11 3 18742 LOOP-FREE THRESHOLD ELEMENT STRUCTURES
70 11 3 18743 THE DESIGN OF SHIFT REGISTER GENERATORS FOR FINITE SEQUENCES
70 11 3 18744 ON THE CHARACTERIZING PARAMETERS OF A THRESHOLD FUNCTION
70 11 3 18745 TREATMENT OF DELAYS IN ASYNCHRONOUS NETWORKS
70 11 3 18746 CELLULAR-ARRAY REALIZATION OF FINITE-STATE SEQUENTIAL MACHINES
70 11 4 18930 MULTIPLE CONTROL COMPUTER MODELS
70 11 4 18959 DIGITAL COMPUTER DESIGN
70 11 4 18960 SOME THEORETICAL PROPERTIES OF MULTITHRESHOLD REALIZABLE FUNCTIONS
70 11 4 18961 ON THE GENERATION OF A CLASS OF MULTITHRESHOLD FUNCTIONS
70 11 4 18962 HAZARDS IN ASYNCHRONOUS SEQUENTIAL CIRCUITS
70 11 4 18963 ON THE GENERATION OF A CLASS OF MULTITHRESHOLD FUNCTIONS
70 11 4 18964 CHARACTERISTICS OF SEMICONDUCTING GLASS SWITCHING-MEMORY DIODES
70 11 5 19037 OPERATIONS MANAGEMENT: SELECTED READINGS
70 11 5 19060 COMPUTER OPTIMIZATION OF RECOGNITION NETWORKS
70 11 5 19077 ASSEMBLERS AND LOADERS
70 11 5 19117 SIMPLIFICATION OF INCOMPLETELY SPECIFIED FLOW TABLES WITH THE HELP OF PRIME CLOSED SETS
70 11 5 19121 RELATIONSHIPS AMONG DISTINCT MODELS AND NOTIONS OF EQUIVALENCE FOR STOCHASTIC FINITE-STATE SYSTEMS
70 11 5 19136 THRESHOLD LOGIC
70 11 5 19137 PROGRAMMED ALGORITHMS TO COMPUTE TESTS TO DETECT AND DISTINGUISH BETWEEN FAILURES IN LOGIC CIRCUITS
70 11 5 19138 TRANSITION LOGIC CIRCUITS AND A SYNTHESIS METHOD
70 11 5 19139 UNIVERSAL SINGLE TRANSITION TIME ASYNCHRONOUS STATE ASSIGNMENTS
70 11 5 19140 A CELLULAR STRUCTURE FOR SEQUENTIAL NETWORKS
70 11 5 19141 A DESIGN FOR A FAST COMPUTER FOR SCIENTIFIC CALCULATIONS
70 11 5 19142 NANOSECOND THRESHOLD LOGIC GATES FOR 16 X 16 BIT, 80NS LSI MULTIPLIER
70 11 5 19145 DIGITAL MAGNETIC LOGIC
70 11 5 19151 WORST-CASE ANALYSIS OF A RESISTOR MEMORY MATRIX
70 11 6 19198 TRENDS IN COMPUTER-AIDED CIRCUIT DESIGN (CACD)
70 11 6 19302 AN ANALYSIS OF THE REGRESSION MODEL FOR NONSATURATING LOGIC CIRCUIT ANALYSIS
70 11 6 19303 COMPUTER-AIDED TEST GENERATION FOR FOUR-PHASE MOS LSI CIRCUITS
70 11 6 19304 AN ALGORITHM FOR NAND DECOMPOSITION UNDER NETWORK CONSTRAINTS
70 11 6 19310 CELLULAR LOGIC-IN-MEMORY ARRAYS
70 11 7 19464 GROUP FUNCTIONS AND MULTI-VALUED CELLULAR CASCADES.
70 11 7 19486 UNIVERSAL LOGIC MODULES AND THEIR APPLICATIONS.
70 11 8 19511 BOOLEAN ALGEBRA WITH COMPUTER APPLICATIONS.
70 11 8 19678 MINIMIZATION OF EXCLUSIVE OR AND LOGICAL EQUIVALENCE SWITCHING CIRCUITS.
70 11 8 19681 AN INTRODUCTION TO THE ILLIAC IV COMPUTER.
70 11 9 19718 COMPUTER ORIENTED CIRCUIT DESIGN.
70 11 9 19784 STUDY OF A COMPUTER FOR DIRECT EXECUTION OF LIST PROCESSING LANGUAGE.
70 11 10 19930 LYAPAS: A PROGRAMMING LANGUAGE FOR LOGIC AND CODING ALGORITHMS.
70 11 10 20002 AN OPERATIONAL METHOD FOR INVESTIGATION OF ELECTRONIC COMPUTERS AND DIGITAL SYSTEMS.
70 11 10 20015 COMPUTER REDUCTION OF TWO-LEVEL, MULTIPLE-OUTPUT SWITCHING CIRCUITS.
70 11 11 20018 FAULT DIAGNOSIS AND REPAIR OF CUTPOINT CELLULAR ARRAYS.
70 11 11 20211 A SCHEME FOR SYNCHRONIZING HIGH-SPEED LOGIC.
70 11 11 20212 A SCHEME FOR SYNCHRONIZING HIGH-SPEED LOGIC.

6.20 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - GENERAL

70 11 1 18158 AUTOMATIC DATA PROCESSING: SYSTEM-360 EDITION
70 11 1 18167 DESKTOP COMPUTERS AND MINICOMPUTERS
70 11 1 18277 MODELS OF PURE TIME-SHARING DISCIPLINES FOR RESOURCE ALLOCATION
70 11 1 18279 A MODULAR COMPUTER SHARING SYSTEM
70 11 1 18352 ON THE USE OF TRANSITION DIAGRAMS IN THE DESIGN OF A USER INTERFACE FOR AN INTERACTIVE COMPUTER SYSTEM
70 11 1 18353 MORE ON SIMULATION LANGUAGES AND DESIGN METHODOLOGY FOR COMPUTER SYSTEMS
70 11 2 18498 A MODULAR APPROACH TO FILE SYSTEM DESIGN
70 11 2 18499 AN ANALYSIS OF COMPUTER OPERATIONS UNDER RUNNING TIME PRIORITY DISCIPLINES
70 11 2 18504 MODELS OF PURE TIME-SHARING DISCIPLINES FOR RESOURCE ALLOCATION
70 11 2 18565 THE BASIC LANGUAGE PROJECT
70 11 2 18566 PL/I REDUCER AND DIRECT PROCESSOR
70 11 2 18568 A GLASS DELAY LINE CONTENT-ADDRESSED MEMORY SYSTEM
70 11 5 18985 SIMULATING OPERATING SYSTEMS
70 11 5 18993 THE REMOTE ANALYSIS OF SPECTRAL DATA
70 11 5 19029 SETTING UP A GENERAL-PURPOSE DATA-ACQUISITION SYSTEM
70 11 5 19143 EFFECTS AND DETECTION OF INTERMITTENT FAILURES IN DIGITAL SYSTEMS
70 11 5 19144 MODULAR COMPUTER ARCHITECTURE STRATEGY FOR LONG TERM MISSIONS

6.20 DESIGN AND CONSTRUCTION - COMPUTER SYSTEMS

) 11 6 19185 THE ONSLAUGHT OF THE NEXT GENERATION
) 11 7 19328 DIGITAL COMPUTER PRINCIPLES.
) 11 7 19342 FUTURE DESIGN OF COMPUTERIZED INSTRUMENTS.
) 11 7 19431 A QUEUEING THEORY STUDY OF ROUND-ROBIN SCHEDULING OF TIME-SHARED COMPUTER SYSTEMS.
) 11 7 19434 A TIME-SHARING QUEUE.
) 11 7 19488 THE ILLIAC IV PROCESSING ELEMENT.
) 11 7 19489 THE BLOCK-ORIENTED COMPUTER.
) 11 8 19513 AN-FSQ-7-1954-1977.
) 11 8 19523 SYSTEMS DESIGN CONCEPTS FOR AUTOMATED INTERNATIONAL INFORMATION NETWORKS.
) 11 8 19544 AN APPROACH TO A UNIVERSAL DATA EQUIPMENT INTERFACE FROM THE ADSAF STANDARDIZATION EFFORT.
) 11 10 19889 THE THOMIS MEDICAL INFORMATION SYSTEM.

6.21 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - GENERAL PURPOSE COMPUTERS

) 11 2 18505 DYNAMIC SPACE-SHARING IN COMPUTER SYSTEMS
) 11 4 18768 THE IBM 360-195
) 11 9 19791 THREE DIMENSIONAL OPERATING SYSTEM.

6.22 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - SPECIAL PURPOSE COMPUTERS

) 11 2 18561 THE BASIS FOR IMPLEMENTATION OF ADDITIVE OPERATIONS IN THE RESIDUE NUMBER SYSTEM
) 11 2 18566 PL/I REDUCER AND DIRECT PROCESSOR
) 11 2 18567 ERROR DETECTION AND CORRECTION IN A PHOTO-DIGITAL STORAGE SYSTEM
) 11 4 18774 A PRACTICAL AUTOMATIC DATA ACQUISITION SYSTEM FOR STOPPED-FLOW SPECTROPHOTOMETRY
) 11 5 19162 A TIME SHARED I-O PROCESSOR FOR REAL-TIME HYBRID COMPUTATION
) 11 6 19241 DESIGN CRITERIA FOR A MULTI-INPUT DATA BASE FOR THE NATIONAL AGRICULTURE LIBRARY
) 11 6 19305 A TIME-SHARED DIGITAL FILTER REALIZATION
) 11 6 19306 DIGITAL LETDOWN COMPUTER FOR VERTICAL GUIDANCE
) 11 8 19607 A PREDICTIVE TIME-OPTIMAL CONTROLLER FOR SECOND-ORDER SYSTEMS WITH TIME DELAY
) 11 8 19612 MACHINE INDEPENDENT SOFTWARE.
) 11 10 19921 PROGRAMMABLE CONTROL UNITS-A WAY FORWARD IN DATA COMMUNICATIONS.
) 11 10 20027 A LOGIC-IN-MEMORY COMPUTER.
) 11 11 20079 ON-LINE DESIGN OF CONTROL SYSTEMS.
) 11 11 20086 FRIEDEN MODEL 1151.
) 11 11 20087 OLIVETTI UNDERWOOD PROGRAMMA 101.
) 11 11 20088 WANG LABORATORIES, INCORPORATED.
) 11 11 20117 DECISION-DIRECTED ESTIMATION OF A TWO-CLASS DECISION BOUNDARY.

6.29 DESIGN AND CONSTRUCTION
COMPUTER SYSTEMS - MISCELLANEOUS

) 11 5 19152 A MULTIPLE COMPUTER LINKAGE
) 11 6 19235 HEXAGONAL PARALLEL PATTERN TRANSFORMATIONS
) 11 7 19433 DESIGN AND BEHAVIOR OF TSS-8I A PDP-8 BASED TIME-SHARING SYSTEM.
) 11 7 19500 A QUEUEING MODEL FOR SCAN CONVERSION.
) 11 9 19854 THE INPUT-OUTPUT ARCHITECTURE OF MINICOMPUTERS.
) 11 10 19943 MEASUREMENTS OF SEGMENT SIZE.
) 11 10 20013 THE AED APPROACH TO GENERALIZED COMPUTER-AIDED DESIGN.
) 11 10 20022 MICROMACHINE UNIVERSAL STRUCTURE STUDY ORIENTED TO COMPUTER SIMULATION.
) 11 10 20023 PROGRAMMABLE INDEXING NETWORKS.
) 11 12 20218 FOURTH GENERATION COMPUTERS: USER REQUIREMENTS AND TRANSITION.

6.30 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - GENERAL

) 0 0 73 LSI: THE CHANGING INTERFACE.
) 0 0 117 HANDBOOK OF SEMICONDUCTOR ELECTRONICS.
) 11 2 18560 DESIGN OF DIAGNOSABLE CONTROL UNITS FOR SWITCHING SYSTEMS USING MODULAR INTEGRATED CIRCUITS
) 11 2 18563 OPTICAL DATA PROCESSING
) 11 3 18747 IMPLEMENTATION OF THE NASA MODULAR COMPUTER WITH LSI FUNCTIONAL CHARACTERS
) 11 6 19235 HEXAGONAL PARALLEL PATTERN TRANSFORMATIONS
) 11 6 19262 TESLA: A CONTROL LANGUAGE FOR LOGIC SIMULATIONS OF DIGITAL CIRCUITS
) 11 6 19303 COMPUTER-AIDED TEST GENERATION FOR FOUR-PHASE MOS LSI CIRCUITS
) 11 6 19307 PAPERS ON DIGITAL SIGNAL PROCESSING
) 11 6 19308 THE SYSTEM LOGIC AND USAGE RECORDER
) 11 9 19848 FIRMWARE SORT PROCESSOR WITH LSI COMPONENTS.
) 11 10 20014 A MODEL AND IMPLEMENTATION OF A UNIVERSAL TIME DELAY SIMULATOR FOR LARGE DIGITAL NETS.
) 11 10 20019 DESIGN OF GENERALIZED DOUBLE RANK AND MULTIPLE RANK SEQUENTIAL CIRCUITS.
) 11 10 20020 DESIGN OF A COMPUTER - THE CONTROL DATA 6600.

6.31 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - CIRCUIT ELEMENTS

) 11 1 18354 A BRANCH-BOUND ALGORITHM FOR A WIRING PROBLEM
) 11 1 18360 SOLID STATE KEYBOARD
) 11 2 18562 MULTIPLEX LOGIC CIRCUITS
) 11 3 18747 IMPLEMENTATION OF THE NASA MODULAR COMPUTER WITH LSI FUNCTIONAL CHARACTERS
) 11 3 18748 LARGE-SCALE INTEGRATION: PROMISES VERSUS ACCOMPLISHMENTS - THE DILEMMA OF OUR INDUSTRY
) 11 3 18749 WHAT HAS HAPPENED TO LSI - A SUPPLIER'S VIEW
) 11 4 18960 SOME THEORETICAL PROPERTIES OF MULTITHRESHOLD REALIZABLE FUNCTIONS
) 11 4 18962 HAZARDS IN ASYNCHRONOUS SEQUENTIAL CIRCUITS
) 11 4 18964 CHARACTERISTICS OF SEMICONDUCTING GLASS SWITCHING-MEMORY DIODES
) 11 4 18965 PHYSICS OF INSTABILITIES IN AMORPHOUS SEMICONDUCTORS
) 11 4 18966 THE ERROR CHARACTERISTICS OF THE BINARY RATE MULTIPLIER
) 11 4 18970 A NEW APPROACH TO MEMORY AND LOGIC - CYLINDRICAL DOMAIN DEVICES
) 11 5 19138 TRANSITION LOGIC CIRCUITS AND A SYNTHESIS METHOD
) 11 5 19142 NANOSECOND THRESHOLD LOGIC GATES FOR 16 X 16 BIT, BONS LSI MULTIPLIER
) 11 5 19145 DIGITAL MAGNETIC LOGIC
) 11 5 19146 CHARACTERISTICS OF FAULTS IN MOS ARRAYS
) 11 5 19147 THE QUESTION OF SYSTEMS IMPLEMENTATION WITH LARGE-SCALE INTEGRATION
) 11 6 19198 TRENDS IN COMPUTER-AIDED CIRCUIT DESIGN (CACD)
) 11 6 19302 AN ANALYSIS OF THE REGRESSION MODEL FOR NONSATURATING LOGIC

6.31 DESIGN AND CONSTRUCTION - COMPONENTS AND CIRCUITS

CIRCUIT ANALYSIS
70 11 6 19306 DIGITAL LETDOWN COMPUTER FOR VERTICAL GUIDANCE
70 11 6 19309 PRINTED CIRCUIT CONNECTORS
70 11 6 19310 CELLULAR LOGIC-IN-MEMORY ARRAYS
70 11 7 19353 HOW TO USE INTEGRATED-CIRCUIT LOGIC ELEMENTS.
70 11 7 19474 AN EFFICIENT HEURISTIC PROCEDURE FOR PARTITIONING GRAPHS.
70 11 7 19492 SILICON AND SILICON-DIOXIDE PROCESSING FOR HIGH-FREQUENCY MESFET PREPARATION.
70 11 7 19494 A HIGH-SPEED CARRY CIRCUIT FOR BINARY ADDERS.
70 11 8 19677 COMPUTER ASSISTED INTEGRATED CIRCUIT PHOTOMASK LAYOUT.
70 11 8 19679 ESSENTIAL HAZARD CORRECTION WITHOUT THE USE OF DELAY ELEMENTS.
70 11 9 19849 COMPUTER AIDED TWO-DIMENSIONAL ANALYSIS OF THE JUNCTION FIELD-EFFECT TRANSISTOR.
70 11 11 20211 A SCHEME FOR SYNCHRONIZING HIGH-SPEED LOGIC.
70 11 11 20212 A SCHEME FOR SYNCHRONIZING HIGH-SPEED LOGIC.

6.32 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - ARITHMETIC UNITS

70 11 1 18185 GENERATING PSEUDORANDOM NUMBERS ON A TWO'S COMPLEMENT MACHINE SUCH AS THE IBM 360
70 11 2 18561 THE BASIS FOR IMPLEMENTATION OF ADDITIVE OPERATIONS IN THE RESIDUE NUMBER SYSTEM
70 11 3 18693 THE CHOICE OF BASE
70 11 4 18966 THE ERROR CHARACTERISTICS OF THE BINARY RATE MULTIPLIER
70 11 4 18967 TABLE-LOOKUP-INTERPOLATION FUNCTION GENERATION FOR FIXED-POINT DIGITAL COMPUTATIONS
70 11 5 19098 FAST MULTIPLIERS
70 11 5 19099 ON RANGE-TRANSFORMATION TECHNIQUES FOR DIVISION
70 11 7 19484 ERROR CODES FOR ARITHMETIC AND LOGICAL OPERATIONS.
70 11 7 19495 A COMPACT ECONOMICAL CORE MEMORY WITH ALL MONOLITHIC ELECTRONICS.
70 11 7 19497 A MAIN FRAME SEMICONDUCTOR MEMORY FOR FOURTH GENERATION COMPUTERS.
70 11 7 19498 MATED FILM MEMORY-IMPLEMENTATION OF A NEW DESIGN AND PRODUCTION CONCEPT.
70 11 8 19684 ARITHMETIC UNIT OF A COMPUTING ELEMENT IN A GLOBAL, HIGHLY PARALLEL COMPUTER.
70 11 10 20016 AN ERROR-DETECTING BINARY ADDER: A HARDWARE-SHARED IMPLEMENTATION.
70 11 10 20024 A GRAY CODE COUNTER.
70 11 11 20153 ON OPTIMAL ITERATIVE SCHEMES FOR HIGH-SPEED DIVISION.

6.33 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - CONTROL UNITS

70 11 2 18473 NUMERICAL CONTROL
70 11 2 18561 THE BASIS FOR IMPLEMENTATION OF ADDITIVE OPERATIONS IN THE RESIDUE NUMBER SYSTEM
70 11 4 18968 A CONTROL UNIT FOR A DEC PDP-8 COMPUTER AND A BURROUGHS DISK
70 11 5 19141 A DESIGN FOR A FAST COMPUTER FOR SCIENTIFIC CALCULATIONS
70 11 10 20024 A GRAY CODE COUNTER.

6.34 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - STORAGE UNITS

70 11 1 18182 MEASUREMENT CRITERIA FOR VIRTUAL MEMORY PAGING RULES
70 11 2 18453 CONCEPTUAL DESIGN OF AN AUTOMATED NATIONAL LIBRARY SYSTEM
70 11 2 18503 ANALYSIS AND OPTIMIZATION OF DISK STORAGE DEVICES FOR TIME-SHARING SYSTEMS
70 11 2 18563 OPTICAL DATA PROCESSING
70 11 2 18567 ERROR DETECTION AND CORRECTION IN A PHOTO-DIGITAL STORAGE SYSTEM
70 11 2 18568 A GLASS DELAY LINE CONTENT-ADDRESSED MEMORY SYSTEM
70 11 4 18928 ON THE LOWER BOUND TO THE MEMORY OF FINITE STATE MACHINES
70 11 4 18964 CHARACTERISTICS OF SEMICONDUCTING GLASS SWITCHING-MEMORY DIODES
70 11 4 18965 PHYSICS OF INSTABILITIES IN AMORPHOUS SEMICONDUCTORS
70 11 4 18969 A NEW INTEGRATED MAGNETIC MEMORY
70 11 4 18970 A NEW APPROACH TO MEMORY AND LOGIC - CYLINDRICAL DOMAIN DEVICES
70 11 5 19145 DIGITAL MAGNETIC LOGIC
70 11 5 19148 SEQUENTIAL DECISION-MAKING DEVICE FOR INFORMATION-PROCESSING APPLICATIONS
70 11 5 19149 CHARACTER-SYMBOL GENERATION BY MOS READ ONLY MEMORY
70 11 5 19150 MAGNETIC-FIELD DESIGN CONSIDERATIONS FOR A PLATED-WIRE MEMORY
70 11 5 19151 WORST-CASE ANALYSIS OF A RESISTOR MEMORY MATRIX
70 11 5 19152 A MULTIPLE COMPUTER LINKAGE
70 11 5 19153 VARIABLE TOPOLOGY RANDOM ACCESS MEMORY ORGANIZATIONS
70 11 5 19154 FAULT LOCATION IN MEMORY SYSTEMS BY PROGRAM
70 11 6 19308 THE SYSTEM LOGIC AND USAGE RECORDER
70 11 6 19310 CELLULAR LOGIC-IN-MEMORY ARRAYS
70 11 6 19311 OPTIMIZING THE PERFORMANCE OF A DRUM-LIKE STORAGE
70 11 6 19312 STUDY OF 'LOOK-ASIDE' MEMORY
70 11 8 19682 THE PARALLEL AND THE PIPELINE COMPUTERS.
70 11 9 19784 STUDY OF A COMPUTER FOR DIRECT EXECUTION OF LIST PROCESSING LANGUAGE.
70 11 9 19847 A STUDY OF INTERLEAVED MEMORY SYSTEMS.
70 11 9 19850 USE OF READ ONLY MEMORY IN ILLIAC IV.

6.35 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - INPUT/OUTPUT EQUIPMENT

70 0 0 61 COMPUTER DATA DISPLAYS.
70 0 0 100 COMPUTER GRAPHICS IN MANAGEMENT--CASE STUDIES OF INDUSTRIAL
70 0 0 137 PICTURE PROCESSING AND PSYCHOPICTORICS.
70 0 0 210 OPTICAL DATA PROCESSING, APPLICATIONS.
70 11 1 18178 OPINION POLL RESULTS: OUTPUT GRAPHICS DESIRED BY ELECTRONIC DESIGN ENGINEERS
70 11 1 18190 BASIC GRAPHICS
70 11 1 18230 PATTERN RECOGNITION PROBLEMS IN BUBBLE-CHAMBER PHYSICS
70 11 1 18235 IMAGES FROM COMPUTERS AND MICROFILM PLOTTERS
70 11 1 18243 SYSTEM CHARACTERISTICS OF INTREX
70 11 1 18251 GRAPHICAL SYSTEMS COMMUNICATION: AN ASSOCIATIVE MEMORY APPROACH
70 11 1 18252 DATA STRUCTURES AND TECHNIQUES FOR REMOTE COMPUTER GRAPHICS
70 11 1 18253 THE UTILISATION OF GRAPHIC DISPLAY UNITS AS THE MAIN FORM OF COMPUTER INPUT
70 11 1 18282 REAL-TIME DISPLAY OF COMPUTER GENERATED HALF-TONE PERSPECTIVE PICTURES
70 11 1 18283 ON CALCULATING THE ILLUSION OF REALITY
70 11 1 18284 PROGRAM ANALYSIS - A PROBLEM IN MAN-COMPUTER COMMUNICATION
70 11 1 18311 FAST DRAWING OF CURVES FOR COMPUTER DISPLAY
70 11 1 18352 ON THE USE OF TRANSITION DIAGRAMS IN THE DESIGN OF A USER INTERFACE FOR AN INTERACTIVE COMPUTER SYSTEM
70 11 1 18355 LARGE-SCALE DISPLAYS

6.35 DESIGN AND CONSTRUCTION - COMPONENTS AND CIRCUITS

70 11 1 18356 INTERACTIVE COMPUTER GRAPHICS
70 11 1 18357 LOW COST GRAPHICS
70 11 1 18358 MAGNETIC CHARACTERS FOR DATA ENTRY
70 11 1 18359 LASER DISPLAY TECHNOLOGY
70 11 1 18360 SOLID STATE KEYBOARD
70 11 2 18475 GRAPHIC TIME-SHARING WITH REAL-TIME DATA BASES
70 11 2 18480 A CONVERSATIONAL GRAPHIC DATA PROCESSING SYSTEM: THE IBM 1130-2250
70 11 2 18495 AN ECONOMICAL DISPLAY SYSTEM
70 11 2 18569 THE BLIND LEAD THE BLIND
70 11 2 18570 GENERATION OF GREY TONES BY COMPUTER FOR SIMULATION OF VISUAL INFORMATION SYSTEMS
70 11 2 18571 THE THUMBWHEEL SWITCH AS A DATA ENTRY DEVICE
70 11 3 18593 A HYBRID FREQUENCY RESPONSE TECHNIQUE AND ITS APPLICATION TO AIRCRAFT FLIGHT FLUTTER TESTING
70 11 3 18610 A CONCEPTUAL THREE-DIMENSIONAL CAMERA FOR COMPUTER ANIMATION
70 11 3 18616 COMPUTER GRAPHICS FOR DECISION MAKING
70 11 3 18652 A GENERALIZED INDEX FORMATTING SYSTEM WITH PHOTOCOMPOSITION CAPABILITIES
70 11 3 18669 DESIGN OF AN IMAGE-ORIENTED INFORMATION RETRIEVAL SYSTEM
70 11 3 18725 AN INTERACTIVE GRAPH THEORY SYSTEM
70 11 3 18750 PICTURE PROCESSING BY COMPUTER
70 11 3 18751 MOTION PICTURE ANIMATION BY COMPUTER
70 11 4 18774 A PRACTICAL AUTOMATIC DATA ACQUISITION SYSTEM FOR STOPPED-FLOW SPECTROPHOTOMETRY
70 11 4 18830 OPTIMALITY CONSIDERATIONS IN PICTURE PROCESSING
70 11 4 18884 A GRAPH MANIPULATOR FOR ON-LINE NETWORK PICTURE PROCESSING
70 11 4 18885 AN INTERACTIVE GRAPHICAL DISPLAY MONITOR IN A BATCH-PROCESSING ENVIRONMENT WITH REMOTE ENTRY
70 11 4 18888 REAL-TIME GRAPHIC DISPLAY OF TIME-SHARING SYSTEM OPERATING CHARACTERISTICS
70 11 4 18971 DISPLAY TERMINAL DESIGN
70 11 4 18972 A TOUCH SENSITIVE X-Y POSITION ENCODER FOR COMPUTER INPUT
70 11 5 19005 AN EVENING DESIGNING WITH A COMPUTER
70 11 5 19045 THE USE OF DIGITAL PLOTTING TECHNIQUES IN MANAGEMENT CONTROL SYSTEMS
70 11 5 19081 VIP: A CONVERSATIONAL SYSTEM FOR COMPUTER-AIDED GRAPHICS
70 11 5 19149 CHARACTER-SYMBOL GENERATION BY MOS READ ONLY MEMORY
70 11 5 19153 VARIABLE TOPOLOGY RANDOM ACCESS MEMORY ORGANIZATIONS
70 11 5 19155 PERTINENT CONCEPTS IN COMPUTER GRAPHICS
70 11 5 19156 A COMPREHENSIVE APPLICATIONS METHODOLOGY FOR SYMBOLIC COMPUTER GRAPHICS
70 11 5 19157 AN XY RASTER UTILIZING A DIPOLAR ELECTRO-OPTICAL MEDIUM
70 11 5 19158 THE DEVELOPMENT OF SYSTEMS FOR ON-LINE MATHEMATICS AT HARVARD
70 11 5 19162 A TIME SHARED I-O PROCESSOR FOR REAL-TIME HYBRID COMPUTATION
70 11 6 19232 CONNECTIVITY IN DIGITAL PICTURES
70 11 6 19234 A MULTI-LEVEL SYSTEM OF ANALYSIS FOR MIXED-FONT AND HAND-BLOCKED PRINTED CHARACTER RECOGNITION
70 11 6 19252 FACILITATING THE MAN-MACHINE INTERFACE
70 11 6 19255 A GENERALISED COMPUTER TO COMPUTER LINK FOR AN IBM 360 COMPUTER
70 11 6 19265 PICTORIAL OUTPUT WITH A LINE PRINTER
70 11 6 19301 CLUSTER MAPPING WITH EXPERIMENTAL COMPUTER GRAPHICS
70 11 6 19311 OPTIMIZING THE PERFORMANCE OF A DRUM-LIKE STORAGE
70 11 6 19313 PICTURE PROCESSING BY COMPUTER
70 11 6 19316 SOLVING ARTWORK GENERATION PROBLEMS BY COMPUTER
70 11 6 19315 THE DRAWING MACHINE CONTROL GEAGRAPH 2000
70 11 6 19316 DESIGN OF ARCHITECT'S PLANS BY MEANS OF COMPUTERS
70 11 6 19317 A MODERN METHOD OF DATA ACQUISITION
70 11 6 19318 DATA ACQUISITION - A BOTTLENECK?
70 11 6 19319 LIQUID CRYSTAL DISPLAYS
70 11 6 19320 KINOFORMS AND DIGITAL HOLOGRAMS
70 11 6 19321 THE INTELLIGENT TERMINAL
70 11 7 19374 THE COMPUTER REPRESENTATION OF SIMPLY DESCRIBED SCENES.
70 11 7 19382 PARALLEL COMPUTATION IN PATTERN RECOGNITION.
70 11 7 19384 ON THE AUTOMATIC CLASSIFICATION OF FINGERPRINTS- SOME CONSIDERATIONS ON THE LINGUISTIC INTERPRETATION OF PICTURES.
70 11 7 19425 SIMCON-SIMULATION CONTROL TO OPTIMIZE MAN-MACHINE INTERACTION.
70 11 7 19426 LANGUAGES FOR GRAPHIC ATTENTION-HANDLING.
70 11 7 19499 AN INTERFACE BETWEEN A CONTROL DATA 6000 SERIES COMPUTER AND A HONEYWELL 16-BIT SERIES COMPUTER.
70 11 8 19530 A TECHNICAL SURVEY OF DIGITAL PLOTTERS.
70 11 8 19540 HELICOPTER FUSELAGE VIBRATION ANALYSIS IN THREE DIMENSIONS USING COMPUTER GRAPHICS.
70 11 8 19543 COMPUTER PROGRAMS FOR COMPUTATIONAL ASSISTANCE.
70 11 8 19544 AN APPROACH TO A UNIVERSAL DATA EQUIPMENT INTERFACE FROM THE ADSAF STANDARDIZATION EFFORT.
70 11 8 19590 SIMULATION OF TEXTURE BY COMPUTER GRAPHICS.
70 11 8 19618 THE USE OF A GRAPHIC LANGUAGE TO GENERATE GRAPHIC PROCEDURES.
70 11 8 19666 EXACTLY REVERSIBLE PLOTTER PATHS.
70 11 8 19686 ON-LINE GRAPHICS AT THE UNIVERSITY OF UTAH.
70 11 9 19756 COMPUTER DETERMINATION OF THE CONSTITUENT STRUCTURE OF BIOLOGICAL IMAGES. PART I.
70 11 9 19788 A GRAPHICAL PICTURE DRAWING LANGUAGE.
70 11 9 19828 INPUT-OUTPUT RELATIONS OF FINITE MEMORY SYSTEMS.
70 11 9 19855 LINEAR CURRENT DIVISION IN RESISTIVE AREAS: ITS APPLICATION TO COMPUTER GRAPHICS.
70 11 10 19904 ON THE FEASIBILITY OF VOICE INPUT TO AN ON-LINE COMPUTER PROCESSING SYSTEM.
70 11 10 19945 AN ANALYSIS OF PAGING AND PROGRAM BEHAVIOUR.
70 11 10 20024 A GRAY CODE COUNTER.
70 11 10 20026 SOME PROBLEMS OF OBTAINING THE OPTIMUM READ SIGNAL FROM A STORAGE DEVICE WITH A NON-DESTRUCTIVE READ.
70 11 11 20076 A PROGRAMMING SYSTEM FOR THE ON-LINE ANALYSIS OF BIOMEDICAL IMAGES.
70 11 11 20115 A GRAMMAR FOR THE TOPOLOGICAL ANALYSIS OF PLANE FIGURES.
70 11 11 20214 OPTIMUM DESIGN OF COMPUTER DRIVEN DISPLAY SYSTEMS.
70 11 11 20217 SCANNING THE CRT PICTURE.

6.36 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - AUXILIARY EQUIPMENT

70 11 5 19079 FORMATTING AND DISPLAY OF ALGOL EXPRESSIONS
70 11 6 19265 PICTORIAL OUTPUT WITH A LINE PRINTER
70 11 6 19317 A MODERN METHOD OF DATA ACQUISITION
70 11 8 19540 HELICOPTER FUSELAGE VIBRATION ANALYSIS IN THREE DIMENSIONS USING COMPUTER GRAPHICS.
70 11 11 20100 A CHINESE COMPUTER ALPHABET FOR AUTOMATIC MACHINE PROCESSING.

6.39 DESIGN AND CONSTRUCTION
COMPONENTS AND CIRCUITS - MISCELLANEOUS

70 11 2 18572 CROSSTALK AND REFLECTIONS ON PULSED LINES
70 11 3 18748 LARGE-SCALE INTEGRATION: PROMISES VERSUS ACCOMPLISHMENTS - THE DILEMMA OF OUR INDUSTRY
70 11 3 18749 WHAT HAS HAPPENED TO LSI - A SUPPLIER'S VIEW
70 11 4 18819 A CONSIDERATION OF THE APPLICATION OF CRYPTOGRAPHIC TECHNIQUES TO DATA PROCESSING
70 11 5 19137 PROGRAMMED ALGORITHMS TO COMPUTE TESTS TO DETECT AND DISTINGUISH BETWEEN FAILURES IN LOGIC CIRCUITS
70 11 5 19143 EFFECTS AND DETECTION OF INTERMITTENT FAILURES IN DIGITAL SYSTEMS
70 11 6 19309 PRINTED CIRCUIT CONNECTORS
70 11 6 19314 SOLVING ARTWORK GENERATION PROBLEMS BY COMPUTER
70 11 7 19496 SILICON-ON-SAPPHIRE COMPLEMENTARY MOS CIRCUITS FOR HIGH SPEED ASSOCIATIVE MEMORY.

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